

## Hi-MD System Stereo Personal Component System

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### Instruction manual/Warranty

Thank you for your purchase.



Failure to observe safety precautions with electrical products may result in fire or personal injury.

This instruction manual shows important precautions and how to handle the product to prevent accidents. Please read this instruction manual carefully and use the product safely. After reading, be sure to keep it in a place where you can refer to it at any time.

**Hi-MD**  
AUDIO



NetMD

MDLP



**MD** speakers

# CMT-AH10



# For your safety

Sony products are designed with safety in mind. However, all electrical products are dangerous and may cause personal injury due to fire, electric shock, etc., if used incorrectly. Be sure to observe the following to prevent accidents.

## Follow safety precautions

Please read the notes on pages 6-9 carefully. Contains general product precautions.

## check regularly

Once a year, check that the power cord is not damaged and that dust has accumulated between the power outlet and the power plug.

## Do not use if damaged

If you notice any malfunction or damage to the cabinet, power cord, etc., immediately contact your retailer or Sony service center for repairs.

## In case something goes wrong

If there is a strange sound or smell,  
if smoke appears



**b**

**1** Turn off the power **2** Unplug the power plug from the electrical outlet

**3** Consult the store of purchase or Sony service center for repair

### Meaning of warning indications

The following indications are used in the instruction manual and on the product. Please read the text after fully understanding the contents of the display.



Failure to observe the precautions indicated by this indication may result in personal injury such as death or serious injury due to fire, electric shock, explosion, etc.



Failure to observe the precautions indicated by this indication may result in personal injury such as death or serious injury due to fire, electric shock, etc.



Failure to observe the precautions indicated by this sign may result in injury or damage to nearby household goods due to electric shock or other accidents.

### attention symbol



火災



感電

### Prohibited symbol



禁止



分解禁止



接触禁止



ぬれ手禁止

### Symbols that indicate actions



プラグをコンセントから抜く



指示

# Before using

This instruction manual explains how to use the Personal Component System main unit. There are separate manuals for basic operations for connecting to a computer and detailed software operations. Please refer to the following and use the necessary manuals.

## When using this unit

### xOperating Instructions (this document)

This manual describes the overall operation of this machine. See here for details on operating this unit.

### zOperations on the main unit and remote

control This manual mainly describes operations on the remote control, but you can also perform the same operations on the main unit using buttons with the same or similar names. Please also refer to "Part names" (pages 16-21).



## When connecting this unit to a

### computerxSoftware Installation /Basic Operation Guide

sonic stage

Explains how to install the included software (SonicStage) and basic operations.



### x SonicStage Help This is an

electronic manual that you can view on your computer screen. It is included in the included software SonicStage.

It explains how to use SonicStage in more detail than the "Installation/Basic Operation Guide". Also, if you have any problems while using SonicStage, please see here.





### xPersonal Audio Customer Support Website on the Internet.

You can view the latest support information for this unit and the included SonicStage software. <http://www.sony.co.jp/support-pa/>



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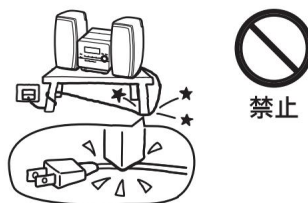
Failure to observe the following precautions may result in death or serious injury due to fire or electric shock .

Do not drop water or foreign matter into the product. If water or foreign matter enters, it may cause fire or electric shock. If water or foreign objects get into the unit, immediately turn off the power switch, unplug the power plug from the outlet, and contact the store of purchase or Sony service center.



Do not damage the power cord

Damage to the power cord may result in fire or electric shock. • Do not process or damage. • Do not place heavy objects on it or pull it. • Keep away from heat appliances. Do not heat. • When unplugging the power cord, be sure to hold the plug.



Pull out.

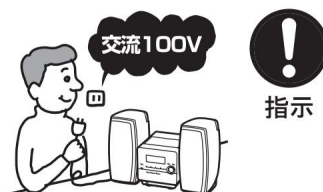
In the unlikely event that the power cord becomes damaged, contact the store of purchase or a Sony service representative for a replacement.

Do not place in places with high humidity, dust, oily smoke, steam, or in direct sunlight . Doing so may cause fire or electric shock. Especially do not use it in the bathroom.

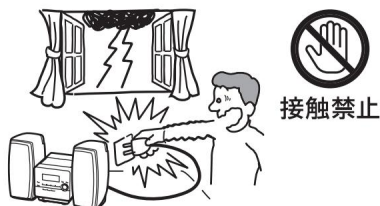


Use a 100V AC power

supply that is not used overseas . Using a different power supply voltage overseas may result in fire or electric shock.



If you hear thunder, do not touch the power plug, otherwise you may get an electric shock.



Do not touch the power plug with wet hands . It may cause an electric shock.



ぬれ手禁止

---

Do not block the ventilation

holes by covering them with a cloth that does not block the ventilation holes, or by placing the product on a long-pile carpet or futon, or placing it close to a wall or furniture. Overheating may result in fire or electric shock.



禁止



注意

Failure to observe the following precautions may result in injury or damage to nearby household goods.

Doing so may cause

an electric shock if the internal parts cannot be opened . For internal inspections and repairs, please contact your dealer or Sony service center.

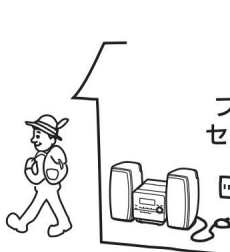


分解禁止

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When moving or not using for a long time, remove the power plug. Moving the product with the power plug plugged in may damage the power cord, resulting in fire or electric shock.

When going out or traveling for a long time, unplug the power plug from the outlet for safety. Leaving it plugged in may cause a fire.

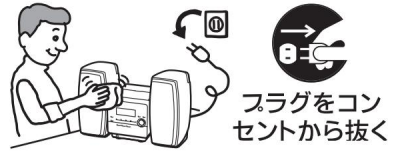


プラグをコンセントから抜く

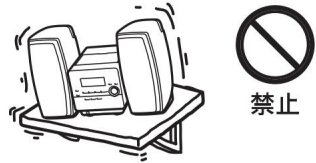


Failure to observe the following precautions may result in injury or damage to nearby household goods.

Remove the power plug when cleaning the product. Cleaning the product with the power plug plugged in may result in electric shock.



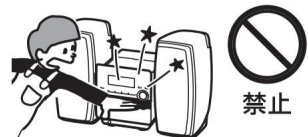
Place the product in a stable place. If you place the product on a wobbly table or on an inclined surface, the product may fall and cause injury. Also, check the strength of the location and mounting location.



Do not listen at high volume continuously for a long time. Listening at a loud volume that stimulates your ears continuously for a long time may adversely affect your hearing. Be especially careful when listening with headphones. Listen at a volume that allows you to answer when someone calls you.



A hand may get caught in the front panel, etc., which is placed out of reach of children, resulting in injury. Please be careful not to let children touch it.



Do not use discs other than round discs.

Using discs with special non-circular shapes (such as star-shaped, heart-shaped, card-shaped, etc.) may cause the disc to fall inside and cause a malfunction, or the disc may pop out due to high-speed rotation, resulting in injury. may cause

### **Safety Precautions for Batteries** To avoid serious injury

or blindness due to leakage, explosion, overheating, fire, or accidental ingestion, be sure to observe the following.



#### **When the button-type battery leaks**

**If the** button-type battery leaks, do not touch it with bare hands. Liquid may remain inside the main unit, so please contact the Customer Service Center or Sony service center. If the liquid gets into your eyes, it may cause blindness, so do not rub your eyes. If the liquid gets on your body or clothes, it may cause burns or injuries. Immediately wash it off with clean water and consult a doctor if you have symptoms of inflammation or injury on your skin.



#### **About button type batteries**

- Small batteries may be swallowed, so keep them out of reach of children. If swallowed, consult a doctor immediately as it may cause suffocation or stomach problems.
- Insert + and - correctly according to the device display.
- Do not charge.
- Do not put in fire. Do not disassemble or heat.
- Do not carry or store the product together with precious metals such as coins, keys, necklaces, etc. Do not short circuit.
- Do not use batteries that have leaked.
- Remove exhausted batteries. Remove when not in use for a long time.



#### **About button type batteries**

- Do not use, store, or leave the product near a fire, in direct sunlight, in a hot car, or in a hot place.
- Do not remove or damage the exterior vinyl tube.
- Do not use batteries other than the specified type.

## About the included software

Reproduction of all or part of the software supplied with this unit and the content of the instruction manual, as well as renting of the software, are prohibited by copyright law without the permission of the copyright holder.

We are not responsible for any financial damages, lost profits, or claims from third parties arising from the use of the software supplied with this unit. In the unlikely event that there is a defect due to manufacturing reasons, we will replace it. Other responsibility

Please forgive me.

The software supplied with this machine can only be used with the specified equipment. The specifications of the software supplied with this unit are subject to change without notice for improvement.

Please note.

Operation is not guaranteed when software that is not supplied with this unit is used.

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- Other system names and product names appearing in this document are generally registered trademarks or trademarks of their respective developers.

Note that the ™ and ® marks are not specified in the text.

## Notes on recording

- If the recording cannot be re-recorded, be sure to make a trial recording beforehand. • If recording or downloading is not possible, or if music data is damaged or deleted due to a problem with this product or your computer, we will not compensate for the content of the data. • According to copyright law, you cannot use the recordings you have made for anything other than personal enjoyment without permission from the copyright holder. The price of this product includes a private recording deposit due to copyright regulations. (Contact: Private Recording Deposit Management Association Tel.03-5353-0336)

## Etiquette when listening to stereo



When listening to music in stereo, please listen at a volume that will not disturb your neighbors. Especially at night, even small sounds can pass through the surroundings. Please be considerate of each other by closing the windows and using headphones to maintain a comfortable living environment.

## What discs can be played on this unit?



### Music CD:

CDDA format CDDA is an compact disc digital audio abbreviation for Compact Disc Digital Audio and is the standard for general music CDs.



### ATRAC CDs:

Atrac Three Plus Atrac Three

CD-R/CD-RW disc\*\* on which audio data in ATRAC3plus\* or ATRAC3\* format has been recorded using SonicStage

Adaptive Transform Acoustic Coding Three

ATRAC3, which stands for Adaptive Transform Acoustic Coding3, is an audio compression technology that achieves both high sound quality and high compression. ATRAC3plus is an audio compression technology that further develops ATRAC3 and compresses audio data to approximately 1/20th that of a CD (when the bit rate is 64 kbps).



### MP3 CD: CD-

R/CD-RW disc on which MP3 format audio data is recorded using SonicStage or other software \*\* MP3 stands for MPEG-1 Audio Layer 3, and records approximately 10 minutes of audio data on a CD. It is an audio compression technology that compresses to 1 of .



### MD:

60/74/80 minute disc



### Hi-MD:

Hi-MD standard 1GB disk

SonicStage cannot create discs with mixed types of audio data.

\* ATRAC3plus and ATRAC3 are trademarks of Sony Corporation.

\*\* Disc formatted in ISO 9660 Level 1/2 format and Joliet Extended format.

About music discs with copyright protection

technology This product is designed for playing music discs conforming to the Compact Disc (CD) standard.

Recently, some record companies sell music discs equipped with technology for copyright protection, but some of these discs do not conform to the CD standard and cannot be played on this product. There are cases.

About DualDisc This

product is designed on the assumption that it will play discs conforming to the Compact Disc (CD) standard .

In the unlikely event that you try to play the music side of the DualDisc with this product, the DualDisc DualDisc cannot be used with this product, as it may cause scratches on the DVD surface that may cause problems during playback .

# You can do this with Hi-MD!

"Hi-MD" is a new standard evolved from conventional MD.

## Putting a lot of music data on one disc

A maximum of 45 hours of recording is possible on a 1GB disc dedicated to the Hi-MD standard. Conventional 60/74/80 minute discs can also be recorded with approximately double the recording density. A large amount of music data can be stored on a single disc, making it convenient to carry around.

Recording time per disc <sup>1)</sup>	
<b>1GB disc</b>	about 45 hours (Approx. 45 CDs <sup>2)</sup> )
About 13.5 hours for an 80 minute disc Capacity doubled (approximately 13 CDs <sup>2)</sup> )	

1) When transferring music data from a computer  
(ATRAC3plus/48kbps)

2) In the case of about 60 minutes per CD



Up to about 5 hours and 20 minutes of recording time on an 80 minute disc With a **conventional MD system stereo** ..... between (when recorded in MDLP LP4 mode)

## Enjoy high-quality sound recording and

**playback** Linear PCM and ATRAC3plus technology allow you to enjoy high-quality sound recording and playback.

**Linear PCM**

Recording method with the same sound quality as a CD without digital compression

**ATRAC3plus**

Audio compression technology that achieves both high sound quality and high compression



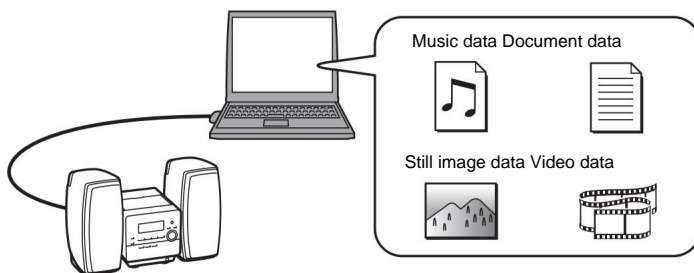
With **conventional MD system stereo** ..... Recording/playback with ATRAC/ATRAC3



**Conventional 60/74/80 minute discs can also be used.**

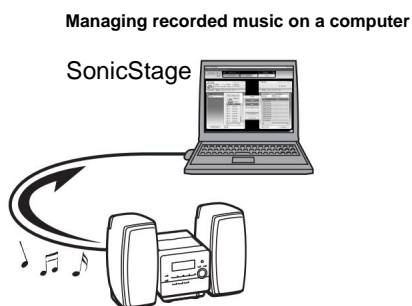
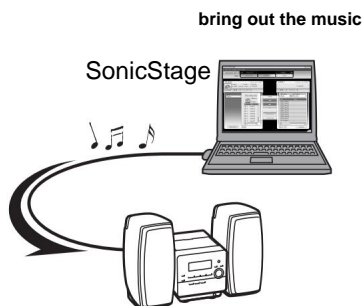
## **Records document and image data in addition to music data**

You can save data on your computer to a disk with a simple drag-and-drop operation.



## **Two-way data transfer with a computer** In addition to being

able to transfer music from a computer at high speed using the included SonicStage software, music recorded with SoundGate can also be transferred to a computer and managed.



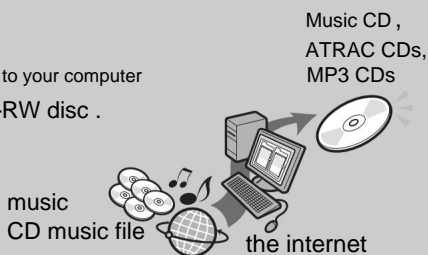
## Enjoy creating your own original CD

In addition to normal music CDs, this unit can play back original CDs (called ATRAC CDs, MP3 CDs) created on a computer using the included SonicStage software . Using SonicStage , for example, you can record approximately 30 music CDs\* worth of music in ATRAC format onto a single CD-R or CD-RW . The flow of listening to the music on the original CD is as follows.

Installing SonicStage on your computer SonicStage is software that allows you to import music from music CDs and the Internet to your computer and create your own original CDs. Install from the attached CD-ROM .



Make an original CD Select your favorite songs from the music you have imported to your computer Use SonicStage to write to a CD-R/CD-RW disc .



You can easily enjoy original CDs containing many songs that you can listen to on this unit's CD player .



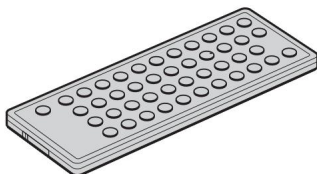
For instructions on how to install SonicStage and how to create an original CD, refer to the included "Software Installation /Basic Operation Guide".

megabyte

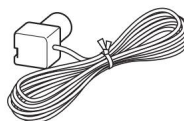
\* This conversion is based on a 700MB CD-R/CD-RW disc with approximately 60 minutes of music CD recorded at ATRAC3plus at 48kbps .

# check the accessories

•Remote control



- FM antenna

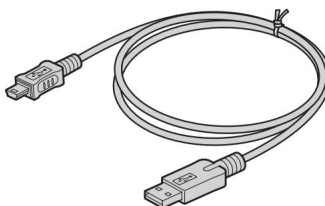


Connection and Preparation

- AM loop antenna



• Dedicated USB cable



•CD-ROM (SonicStage) •CMT-AH10 Instruction Manual/Warranty  
•Software Installation/Basic Operation Guide  
•Customer Registration Information •Sony Customer Service Information

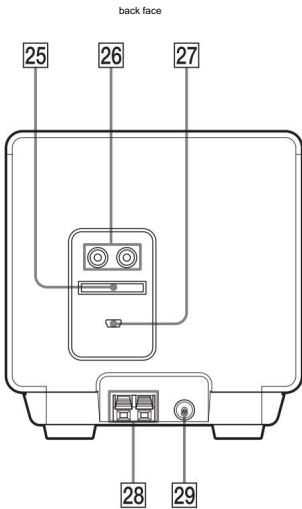
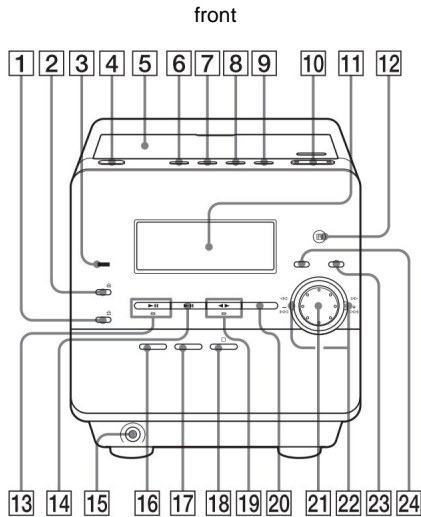
## Note

When connecting this unit to a computer for the first time, be sure to use the supplied CD-ROM to install the software "SonicStage" before connecting.

## Name of each part

See the page in ( ) for a detailed explanation.

### body



**1** CD Z button

Opens and closes the CD slot.

**2** MD Z button

Opens/closes the MD slot.

**3** <sup>busy</sup> Information

is being read while the BUSY lamp is lit or blinking.

**4** I/1 (power) switch

**5** Cassette Lid

**6** <sup>high speed recording</sup> HIGH SPEED REC button

High-speed synchronized recording from CD to MD (32, 66, 67).

**7** <sup>recording mode</sup> REC MODE button

Used to set MD recording mode, MD group recording, and track mark mode (31, 40, 46, 68, 69).

**8** <sup>recording</sup> MD REC button

Manually record to MD (47).

**9** <sup>tape recording</sup> TAPE REC button

Manual recording to tape (86).

**0** <sup>volume</sup> VOLUME +\*, – buttons

**qa** display window

**qs** remote control receiver

**qd** MDu (play/pause) button

**qf** CDu (play/pause) button

**qg** i jack  
Connect headphones (sold separately).

**qh** <sup>function</sup> FUNCTION button  
Used to switch sound sources. "MD", "CD", "TAPE",  
Switches between "TUNER" and "LINE".

**qj** PC MODE button

Used when connecting to a computer (99).

**qk** x (stop) button

**ql** <sup>tape</sup> TAPE Y (playback) button

**w;** <sup>tuner band</sup> Press the TUNER

BAND button to automatically turn on the radio . Switch to FM or AM.

**wa** Jog dial Selects

menu items, songs, and groups (49, 57, 58 to 60, 65).

Call up the tuner's preset stations (88).

**ws** m/M •TUNE +/- •./> button m, M (search):

Fast forward/ reverse the tape (38).

Press and hold the button during MD/CD playback or pause to search for a desired point in the song (58).

<sup>tune</sup> TUNE +/-: Tunes in radio reception (43, 87).

., > (AMS): Jumps to the beginning of a CD or MD track (27, 36).

**wd** <sup>enter</sup> ENTER button Confirms

the selected item (49).

**wf** <sup>Cancel</sup> CANCEL button Cancels the

selected item (49).

**wg** <sup>speaker out</sup> SPEAKER OUT (POWER IN) <sup>power in</sup> jacks

Supply power from the included speakers (22, 23).

<sup>line in</sup>  
**wh** LINE IN

terminal Connect a device such as a TV or VCR (46, 86, 102).

**wj** USB port Use

the dedicated USB connection cable supplied with the camera to connect to a computer (98).

**wk** AM EXT ANT (external antenna) terminal

(twenty two)

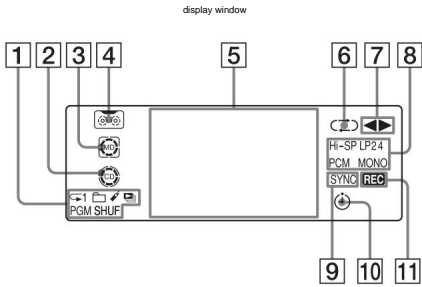
**wl** FM EXT ANT (external antenna) terminal

(twenty two)

\* <sup>volume</sup>  
The VOLUME + button has a convex point (projection). Please use it as a mark for operation.

Continued on next page

Part names (continued)



1 play mode display (60)

2 CD disc display A black  
circle rotates during playback.

3 MD disc display A black  
circle rotates during playback and recording.

4 Tape display A  
black circle rotates during playback and recording.

5 -character information display

6 Direction mode display Displays how  
the tape runs (38, 40, 83 to 85).

7 tape running display (37, 38, 83-86)

8**Recording /**playback mode display  
During MD recording, the selected mode is displayed  
(31, 40, 46). The recorded mode is displayed during  
playback (31). While stopped, the mode in which the  
MD was recorded just before is displayed.

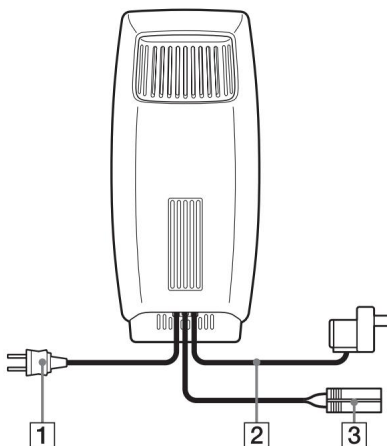
9 **synchro** SYNC display  
Appears when synchronized recording to MD or TAPE  
(32, 41, 66, 67, 83, 84).

q; **Timer** running display  
Displayed when the timer is set (94, 96).

qa **recording** REC display  
Appears when recording to MD or tape.

## speaker

Right speaker rear



**1 Power plug**

Connects to a wall outlet (22, 23).

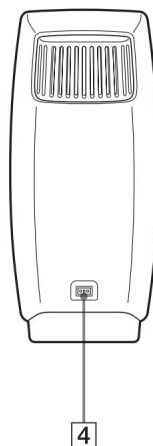
**2 Connect to**

the SPEAKER OUT (POWER IN) terminals on the connection cord (22, 23).

**3 speaker cord**

Connect to the SPEAKER terminal on the left speaker (22).

Rear of left speaker



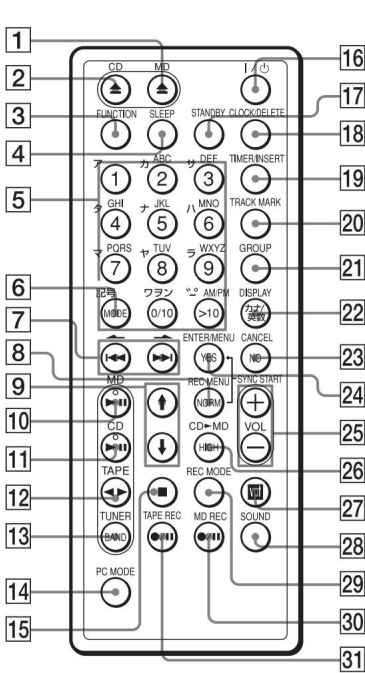
**4 SPEAKER terminal**

Connect the speaker cord of the right speaker (22).

Continued on next page

Part names (continued)

Remote controller



1 ZMD button

Opens/closes the MD slot.

2 ZCD button

Opens and closes the CD slot.

3 FUNCTION button

Used to switch sound sources. "MD", "CD", "TAPE",  
Switches between "TUNER" and "LINE".

4 SLEEP button

Use to sleep while listening to music (96).

5Number /letter buttons

Used for direct CD/MD song selection, MD character input, clock/timer date/time setting, tuner preset number selection, and station name input (24, 57, 72, 88, 93, 95). 20 connection and preparation

6 MODE button

CD/MD: Used to switch the sub playback mode and set repeat playback (64).

Radio: Switches stereo/monaural reception during FM reception (44).

TAPE: Switches the running method (direction mode) (38, 40, 83 to 85).

LINE: Switches the input sensitivity of the connected device.

7 ., > (AMS/search) >, . button

., >: Jumps to the beginning of a CD or MD track (27, 36).

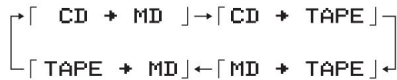
Press and hold the button during MD/CD playback or pause to search for a desired point in the song (58).

Fast forward/reverse the tape (38).

>, .: Adjusts the frequency during radio reception (43, 87).

You can also select the contrast of the display window and the volume of the timer (25, 93, 95), and is also used when naming MDs and entering tuner titles (72).

8 REC MENU NORM button Selects the sound source and recording destination when using synchronized recording . Each time you press the M or m button, it switches as follows (32, 41).





**0** MDu (play/pause) button\*

**qa** CDu (play/pause) button\*

**qs** TAPE Y (playback) button

tuner band  
**qd** Press the TUNER

BAND button to automatically turn on the radio . Switch to FM or AM.

**qf** PC MODE button

Used when connecting to a computer (99).

**qg** x (stop) button

**qh** l/1 (power) button

stand-by  
**qj** STANDBY button

Used to reserve the timer (94-96).

clock delete  
**qk** CLOCK/DELETE button Used

to delete characters when setting the clock, naming an MD, or naming a stored station (24, 72, 88).

timer insert  
**ql** TIMER/INSERT button

Used to insert characters when setting timers, naming MDs, and assigning station names to memorized stations (72, 88, 93, 95).

track mark  
**w;** TRACK MARK button

With MD, you can add or remove track marks in the middle of a track (48, 80, 81).

group  
**wa** GROUP button

Displays the group list for MDs and CDs that have groups (58). It can also be used to cue by artist or album during artist playback or album playback.  
(58, 62).

display  
**ws** DISPLAY • Kana/Alphanumeric (display switching • character input switching) button Switches the information on the display window (54 to 56).

Used to switch the input mode when entering MD characters or broadcasting station names (72).

no cancel  
**wd** NO•CANCEL button

Cancels the selected item. A long press cancels all menu operations (49).

yes enter menu  
**wf** Press and hold the YES•ENTER/

MENU button to switch to the menu item selection screen. A single press confirms the selected item. In addition, for CDs and MDs, a single press switches to the screen for selecting the main playback mode.

volume  
**wg** VOL (volume) +, - buttons

Yes  
**wh** CDNMD HIGH (high-speed recording) button

High-speed synchronized recording from CD to MD (32, 66, 67).

**wj** vpt (surround) button (92) Select the desired sound quality from SORROUND, WIDE, and OFF (standard) .

sound  
Select the desired sound

quality from the 5 types of **wk** SOUND buttons (91).

recording mode  
**w** REC MODE button

Used to set MD recording mode, MD group recording, and track mark mode (31, 40, 46, 68, 69).

recording  
**e;** MD REC z/X button

Manually record to MD (47).

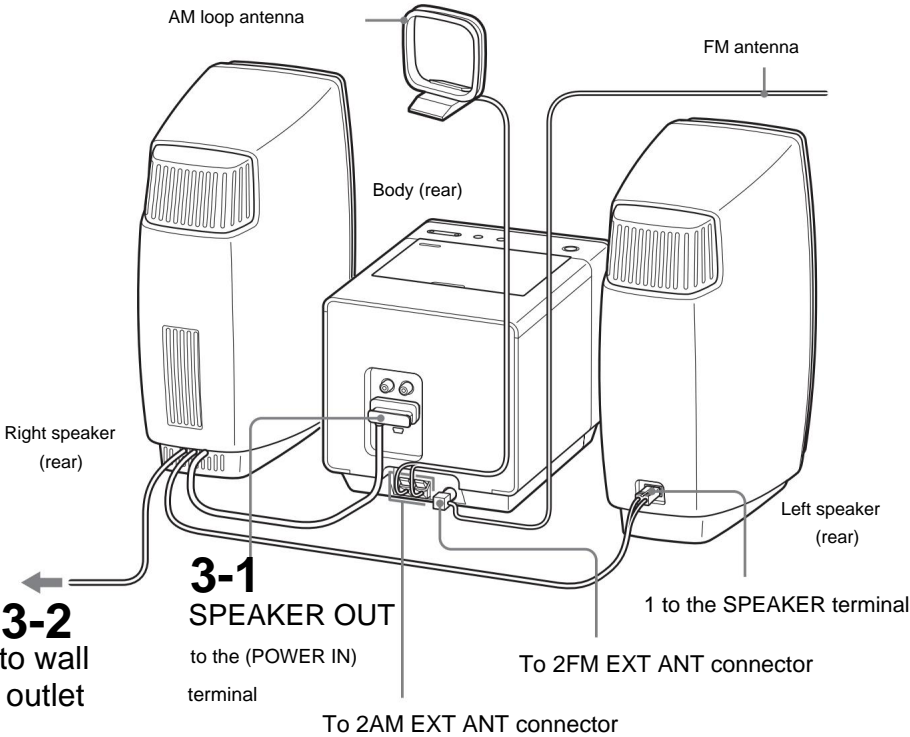
tape recording  
**ea** TAPE RECz/X button

Manual recording to tape (86).

\* Convex dots (protrusions) are attached. As a mark of operation  
Please use it.

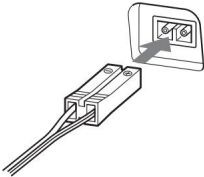
# Connecting

Please insert the code firmly. Wrong connection will cause malfunction.

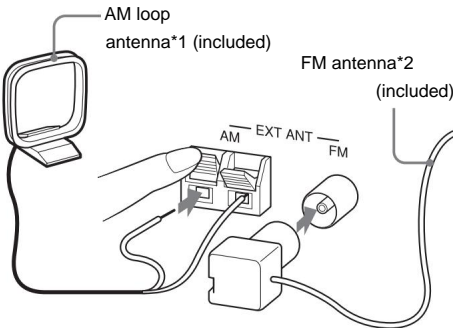


## 1 Connect the speaker

Route the speaker cord from the right speaker to the left speaker.  
Connect to the SPEAKER terminal.



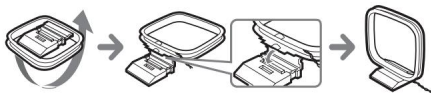
## 2 Connect the antenna to the main unit



\*1 Point the loop antenna in the direction with the best reception.  
Kick.

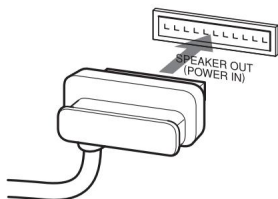
\*2 Extend the antenna as horizontally as possible.

How to assemble the AM loop antenna



### 3 Connect the power cord

- 1** Connect the connection cord from the right speaker to the SPEAKER OUT (POWER IN) terminal on the main unit.



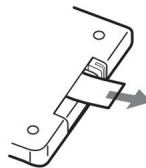
- 2** Power supply from the right speaker  
Connect the cord plug to the wall outlet.

please note

When unplugging the power cord, turn off the power to the main unit before unplugging it. If there is a power failure, the contents of the memorized clock, timer, etc. may be lost. If the memorized contents are erased, set them again.

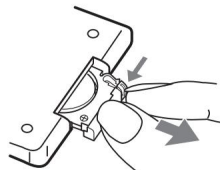
### Prepare the remote control

Pull out the insulation sheet to make the remote control ready for use. Batteries are already installed in the remote control.



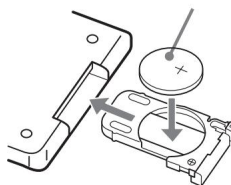
#### About battery replacement

As the batteries run down, the distance that the remote control can operate becomes shorter. Follow the steps below to replace the batteries with new ones. It lasts about 6 months with normal usage . **1** Remove the battery case.



- 2** Replace the lithium battery CR2025 with a new battery with the side labeled + facing up .

Lithium battery CR2025 (sold separately)



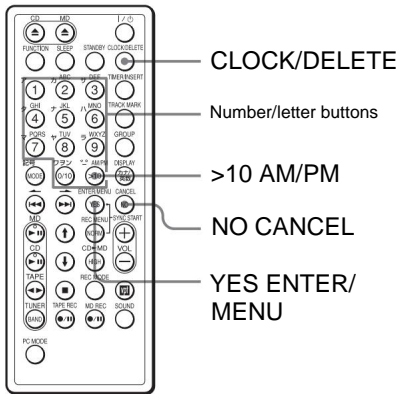
- 3** Replace the battery case.

Note Do

not expose the remote control sensor to direct sunlight or strong light from lighting fixtures. You may not be able to operate the remote control.

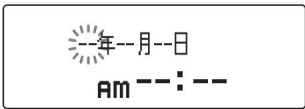
# set the clock

The clock display on this unit remains “-:-:-” until the clock is set. If you set the clock, the recording date and time will be automatically recorded when you record on the MD .



## 1 until the year digits flash

Hold down the **CLOCK/DELETE** button . The last two digits of the year will flash.



## 2 Set the year, month, and day.

**1Press** the number/letter buttons to set the year, and press the **YES•ENTER/MENU** (ENTER on the main unit ) button. The "month" number flashes. **2Press** the number/letter buttons to set the month, and press the **YES•ENTER/MENU** (ENTER on the main unit ) button. The "day" number flashes.

**3Press** the number/letter buttons to set the date, and press the **YES•ENTER/MENU** (ENTER on the main unit ) button. The "hour" and "minute" digits flash.

## 3 Set the time.

**1** Press the **>10 AM/PM** button on the number/letter buttons to set "Am" or "Pm" .

**2Press** the number/letter buttons in order of "hour" and "minute". Example) At 8:45, press 8y4y5 in order.

**4** Press the **YES•ENTER/MENU** ( ENTER on the unit) button. The clock runs from 00 seconds.

If you make a mistake on the way, press the **NO•CANCEL** (CANCEL on the main unit) button . The last setting will be lost, so please set it again.

To display the current date and time, press the **CLOCK/DELETE** button during stop, playback, or manual recording (pages 45, 85) . Press again to return to the original display.

**Note**  
When the power cord is disconnected, the clock display may return to “-:-:-”. In that case, set the clock again.

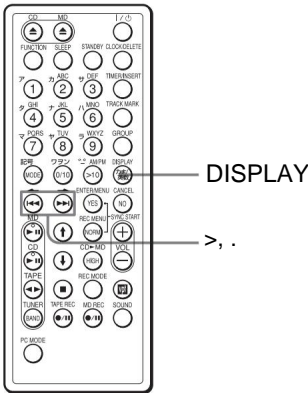
**Tip • At the**  
time of purchase, the time display is set to 12 hours.  
Midnight : "Am12: 00" Noon : "Pm12:00" • To switch to 24-hour display, use the menu operation.

(page 49), select "Useful Functions" – "Clock Display Settings" – "24-Hour Display", then press the **YES•ENTER/ MENU** button to confirm.

# Adjusting the contrast of the display window

You can adjust the contrast of the display window to your liking.

Connection and Preparation



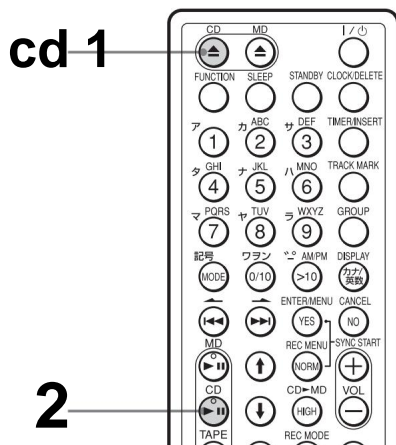
**1** Press the DISPLAY button for about 2 seconds while the power is off . "Contrast 0" is displayed.

**2** Press the > or . Adjust contrast. You can adjust the strength of contrast in the range of -7 to +7 .

**Note**

When the power cord is unplugged, the contrast value on the display window may return to "0". In that case, adjust the contrast of the display window again.

# listen to



See Preparation, "Connecting" (pages 22, 23).

## 1



**Press the CDZ button and insert the CD .**

letter side up

Pressing the button automatically turns on the power and raises the front panel . Insert the CD into the slot with the label side (the side with letters) facing up.

When you insert a CD, it automatically lowers the top panel.



## 2

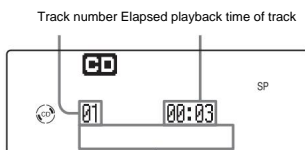


**Press the CDu button.**

Playback begins.

Display

window music CD

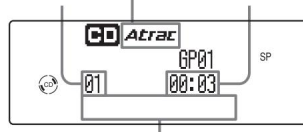


CD-TEXT When playing a  
CD: Song title, artist name

**ATRAC CD/MP3 CD**

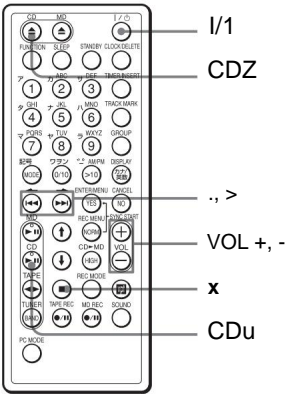
ATRAC or MP3 display track

number Track playback elapsed time



ATRAC CD: Song title, artist name MP3  
CD: Displayed if the song title and artist  
name are recorded in the ID3 tag. The file  
name is displayed if the song name is not  
recorded.

Other operations



Tips • Before

playing a CD,

Reads all group and file information recorded on the CD. "Reading" is displayed while reading, and it may take some time to read depending on the content .

- For CDs with a lot of songs, such as ATRAC CD/MP3 CD , it takes time to read the information for each operation, and you may not be able to proceed to the next operation immediately.

- Do not use an adapter when playing 8cm CDs. When inserting an 8cm CD, insert it in the center of the slot.
  - Depending on the operating status of the CD, it may take some time to eject the CD, but this is not a malfunction. • To listen with headphones,

**Connect headphones to the i terminal .** • Even if you stop playback, you can set it so that the next time you start playback, you will continue from where you left off (" Listening from where you left off " on page 59).

In such a case	button to push
adjust the volume	VOL (VOLUME on the main unit) +, -
stop playing	x
Pause during playback	Press CDu again to start playback.
	, short press.
Return to the beginning of the song	Return to the previous song
go to next song	> , short pop.
Eject CD*	CDZ
Power on/off	I/1

\* When the front panel is opened, the next playback will start from the first track.

To select the ATRAC CD/MP3 CD group, see "Selecting the desired group" (page 58).

Continued on next page

Listening to CDs (Continued)

Notes

- Discs that contain both ATRAC3plus and MP3 files , or discs that contain audio tracks (CDDA) and files in other formats may not be playable. • Playback may not be possible depending on the condition of the disc or recorder used for recording.

About ATRAC

CDs • Discs written with ATRAC3plus files cannot be played in a computer drive.

About MP3

CDs • Add the extension “mp3” to MP3 files . However, files other than MP3 files with the “mp3” extension will not be recognized correctly.

- Bits that can be played back on this unit
  - The rate is 16 to 320 kbps and the sampling frequency is 32/ 44.1/48 kHz. It also supports variable bit rate (VBR) .
  - When compressing to an MP3 file, it is recommended to set the compression software to “44.1 kHz” and “128 kbps” (fixed).
  - When recording up to the maximum capacity, set the writing software to “No additional writing”.

Unused CD-R/CD-RW

If you want to record to the maximum capacity of the disc at one time , write disc at once  
Select “Disc at once”  
“Once” setting.

stamach.

File structure of ATRAC3plus and MP3

**CD ATRAC3plus** has a very simple structure consisting of “groups” and “files”. “File” is Music

A “song” is equivalent to a “song” on a CD, and a “group” is a bundle of files, equivalent to an “album” on a music CD. Groups cannot be created within groups.

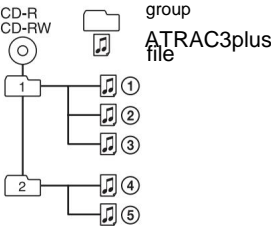
Even on a CD containing MP3 files, a “file” corresponds to a “song” , and an “album” corresponds to a “group”. On this machine, MP3 folders are also recognized as “groups” and can be used in the same way.

Structure and playback order of ATRAC3plus and MP3

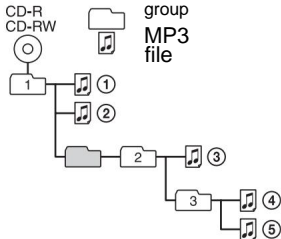
CDs ATRAC CDs are played in the order selected in SonicStage .

MP3 CDs may play in a different order depending on how they were written. Also, groups that do not contain MP3 files are skipped and played. You can also play a “playlist” that describes the order of MP3 files to play. In the MP3 CD example below , the files are played in order from 1 to 5.

•ATRAC3plus



•MP3



Number of groups that can be used, number of groups that can be used, and number of files Number of files • Maximum number of groups: 855 • Maximum number of files: 999 • Maximum number of files: 9999 • Maximum number of layers: 8

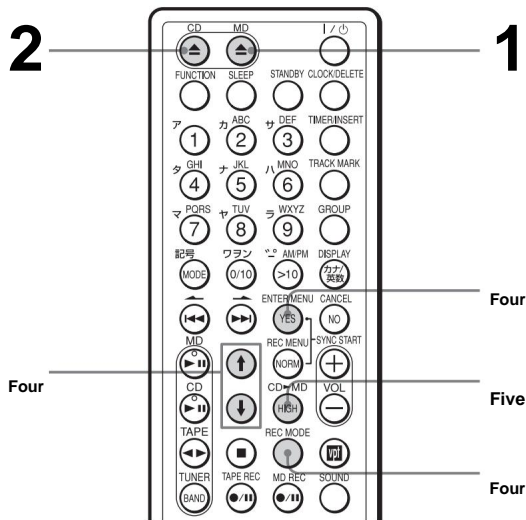
Tips • This unit

can display up to 126 characters each for group names and file names for ATRAC CDs and MP3 CDs. The ATRAC CD/MP3 CD characters that can be displayed on this unit are alphanumeric characters and symbols (half square), kanji, hiragana, and katakana.

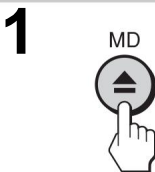


# Recording an entire CD to an MD

(High-speed synchronized recording) (CD-MD synchronized recording)



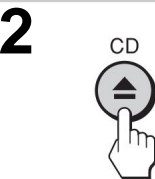
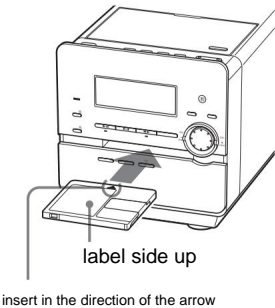
See Preparation, “Connecting” (pages 22, 23).



**Press the MDZ button and insert the recording MD.**

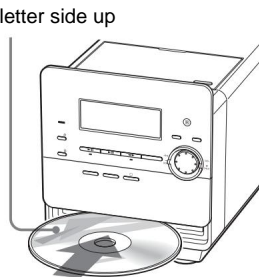
Pressing the button automatically turns on the power and raises the front panel. Insert the MD into the slot with the label side facing up.

Inserting an MD automatically lowers the front panel.



**Press the CDZ button and insert the CD.**

The front panel will rise. Insert the CD into the slot with the label side (the side with letters) facing up. Inserting a CD automatically lowers the front panel.



Continued on next page

3

Check the MD operating mode.

This unit has two operation modes, "Hi-MD" and "MD". The operating mode is automatically switched according to the inserted disc . When the operation mode is Hi-MD mode, is displayed on the display window . will be

display window

Displayed in Hi-MD mode



When inserting a Hi-MD standard 1GB disc  
Hi-MD mode is automatically set.

When a conventional 60/74/80 minute disc is inserted  
It will be as follows.

Disc type	action mode
blank disc	Follows the setting of "Disc Mode"* in the menu . It is set to "Hi-MD" at the time of purchase .  If you use the disc on another MD device that does not support Hi-MD, change the "Disc Mode" setting to "MD" .
A disc containing material recorded in Hi-MD mode	Hi-MD mode
Disc containing MD mode material recorded in MD mode	

\* For details on setting the disk mode, refer to "Choosing the disk mode" (90 page).

Four

REC MODE



f

ENTER/MENU



**Select the MD recording mode.**

The recording time differs depending on the recording mode. Follow the steps below to select your preferred recording mode.

If the displayed recording mode is acceptable, this step is not necessary.

**1 Press the REC MODE button to display the menu screen.**

display window



recording mode

The selected menu item flashes

**2 Press the M or m button or turn the jog dial to**

Select "MD Recording Mode" and press the YES•ENTER/MENU (ENTER on the main unit ) button to confirm.

**3Select the desired recording mode in the same way, and press the YES•ENTER/ MENU**

(ENTER on the main unit) button to confirm.

The recording mode you set is memorized until the next time you record.

When recording to your disc in Hi-MD mode

Recording mode\*1 menu Recording time (display)

Linear PCM PCM recording • Approx. 28 minutes per 80 minute disc

Stereo recording (PCM) • Approx. 94 min per 1GB Hi-MD standard disc

Hi-SP Hi-SP recording • Approximately 140 minutes on a 80-minute disc Stereo recording (Hi-SP) • Approximately 475 minutes on a 1GB Hi-MD standard disc

Hi-LP Hi-LP recording • Approx. 610 minutes on 80 minute disc Stereo recording (Hi-LP) • Approx. 2,040 minutes on Hi-MD standard 1GB disc

\*1 The contents recorded in each of these modes can be played back only on devices that support Hi-MD playback .

If you want to record with higher sound quality, select "PCM recording" or "Hi-SP recording" .

When recording to your disc in MD mode

Recording mode\*2 Menu (display) Recording time\*3

stereo recording SP recording (SP) about 80 minutes

LP2 stereo recording LP2 recording (LP2) about 160 minutes

LP4 stereo recording LP4 recording (LP4) about 320 minutes

\*2 Contents recorded in modes other than stereo recording mode can be played only on devices that support MDLP playback. If you want to record with higher sound quality, select "SP recording " or "LP2 recording". \*3

When using an 80-minute disc.

Continued on next page

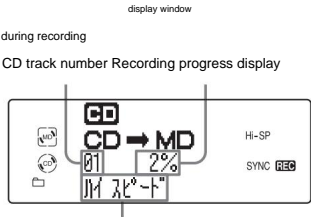
Recording an entire CD to an MD (high-speed synchronized recording) (CD-MD synchronized recording) (Continued)

Five



For high-speed recording,  
Press the **CDNMD HIGH ( HIGH  
SPEED REC on the main unit) button.**

Recording will start automatically.



When recording at normal speed:  
"Normal speed"

If you insert an MD that has already been  
recorded, it will be recorded after the recorded  
part.

No sound is output from the speakers or  
headphones during high-speed recording.

When recording ends, both CD and MD  
automatically stop.

To record at normal speed while listening to music

- 1 Press the REC MENU NORM button to display the menu screen.
- 2 Press the M or m button or turn the jog dial to  
Select "CD → MD" and press the YES+ENTER/MENU (ENTER on the main unit )  
button to confirm. "Are you sure you want to start recording?" "Yes: press  
ENTER No: press CANCEL" is displayed .

- 3 Press the YES ENTER/MENU (ENTER on the main unit) button to confirm  
To do.

Note •

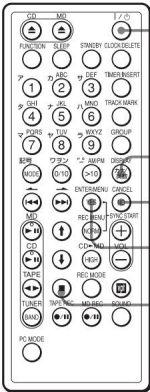
After stopping recording, do not unplug the power cord or move the unit while "Writing system file" is flashing. It may not be recorded. • "PCM recording", "Hi-SP recording"

"Audio", "Hi-LP recording", "LP2 recording", or "LP4 recording" will be displayed as "Hi MD Disc" or "LP:" if you try to play or edit it on a device that does not support each of them. is displayed and cannot be played or edited. • Even if you adjust the volume or sound quality during recording, the recorded sound will not be affected. However, please note that if the volume is too loud, it may cause the sound to skip. • It is recommended that you use this unit when performing divide ( page 80) or combine (page 80) editing of long songs recorded with "PCM recording" . Transferring tracks to a computer and editing them on the computer can take a very long time.

Tips • When

recording at normal speed, press the DISPLAY button to display the track number of the CD and the elapsed recording time. • At the time of purchase, the unit is set to always create new groups for recording . The MD track number (track mark) is placed at the same location as the recording source CD, and one group is formed up to the end of recording. To record without creating a group, set to "Group Record Off" ("Create a new group and record" on page 68).

Other operations



I/1

DISPLAY

NO CANCEL

YES ENTER/MENU

x

In such a case	button to push
stop recording	x
Power on/off	I/1

If "CD > MD" is displayed, the remaining time for MD recording is insufficient.

If you don't care if the CD can't be recorded to the end, Press the YES•ENTER/MENU (ENTER on the main unit) button . To stop recording, press the NO•CANCEL (CANCEL on the main unit ) button.

If other messages are displayed, see pages 110-116.

When MD ends in the middle of recording, both CD and MD stop automatically.

**Recording an entire CD to an MD (high-speed synchronized recording) (CD-MD synchronized recording) (Continued)**

- CDs that can be recorded are audio tracks (CDDA) only . Other music sources (ATRAC3plus,

ATRAC3, MP3, etc.) or mixed discs cannot be recorded. • Or the device with the MD logo is not "Hi-SP",

It supports "Hi-LP". Or MDLP Devices with the logo support "LP2" and "LP4". • LP4 stereo recording uses a special compression method to achieve long stereo recording. Therefore, momentary noise may occur on very rare occasions, depending on the recording source. • If the clock is set, the recording date and time are automatically recorded on the MD (page 24). • You can add song titles and group names while recording.

For Hi-MD, the artist name and album name can also be added (pages 71-73). • For CDs that support CD TEXT,

At the same time as recording, information such as the CD disc name, song title, artist name, etc. is recorded on the MD . • Erasing tracks

recorded on MD

see "Erasing Songs and Groups " (page 78).

**Notes on high-speed recording •**

The same track cannot be recorded continuously at high speed (HCMS: High Speed Copy Management System, page 123 ).

If a fast recorded song was recorded within the last 74 minutes, it will be recorded at normal speed. At that time, no sound will be output from the speakers or headphones. If there are several songs recorded at high speed on one CD, only those songs will be recorded at normal speed.

- Turn off the power within 74 minutes after starting high-speed recording, and turn off the power within 5 seconds.

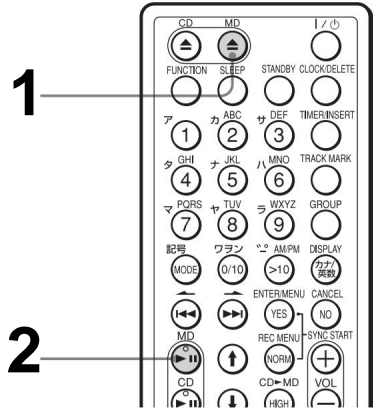
If you unplug the cord from the outlet, you will not be able to record at high speed for another 74 minutes from the next time you connect the power cord, even if it is not the same song .

- If recording stops in the middle of a song during high-speed recording, that song will not be recorded.

**not**

- If an error occurs during high-speed recording due to dirt or scratches on the CD, the recording speed will be automatically reduced. • If you record a CD that contains music without breaks between tracks at high speed using "Hi-SP recording" or "Hi-LP recording", noise may appear between tracks. In this case, record at normal speed.

# listen to MD



See Preparation, “Connecting” (pages 22, 23).

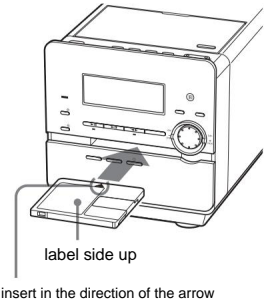
1



## Press the MDZ button to insert the MD .

Pressing the button automatically turns on the power and raises the front panel . Insert the MD into the slot with the label side facing up.

Inserting an MD automatically lowers the front panel.



2



## Press the MDu button.

Playback begins.

display window

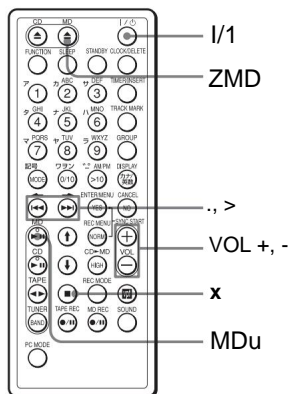
Displayed when the operation mode is Hi-MD mode

MD: song title  
Hi-MD: Displayed when song title or artist name is recorded

Continued on next page

### Listening to MD (Continued)

## Other operations



**Tips • This unit**

should be used before playing an MD.

to read the information recorded on the MD. "Reading" is displayed while reading, and it may take some time to read depending on the content.

I have. • By

the way it was recorded.

PCM playback/Hi-SP playback/  
Hi-LP playback/SP playback/LP2  
playback/LP4 playback switches  
automatically ( page 31 ). • To  
listen with headphones,

**Connect headphones to the i**

**terminal .** • Even if you stop playback, you can set it so that the next time you start playback, you will continue from where you left off (" Listening from where you left off " on page 59).

In such a case button to push

adjust the volume      VOL (VOLUME on the main unit) +. -

stop playing                      **x**

Pause during playback Press

MDu again to start playback.

Return to the beginning of the , short press.

song Return to the previous song

go to next song                      > , short pop.

Eject MD*	MDZ
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	0
85	0
86	0
87	0
88	0
89	0
90	0
91	0
92	0
93	0
94	0
95	0
96	0
97	0
98	0
99	0

Power on/off I/1

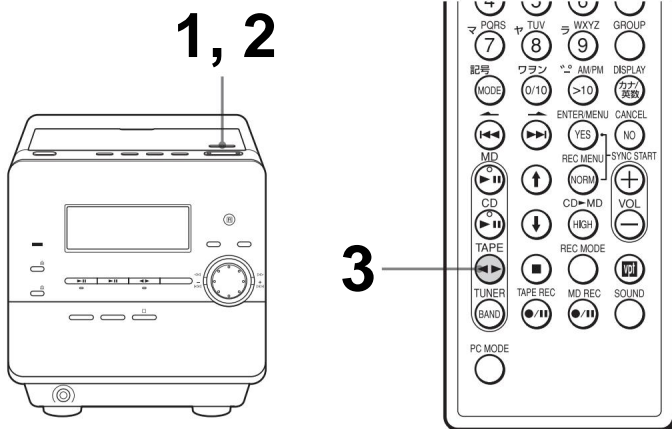
\* When the front panel is opened, the next playback will start from the first track.

### What is the group function?

A “group” is a collection of multiple songs. If you collect your favorite songs and create a group, you can quickly find the song you want to listen to (“Selecting the desired group” on page 58). This unit has functions for recording in groups (page 68) and creating groups by editing after recording (page 74). See page 70 for details on group structure.



# listen tape



See Preparation, "Connecting" (pages 22, 23).

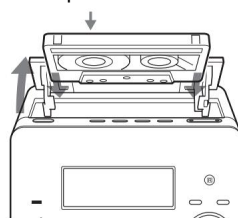
## 1



Press **ZPUSH OPEN** to  
open the cassette lid and  
insert the tape.

Use TYPE I (normal) tape.

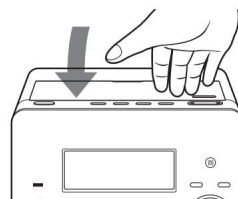
face up



## 2



Press **ZPUSH OPEN** to  
close the cassette lid.



## 3



Press the **TAPEY** button. The power  
will automatically turn on and playback  
will begin.



running surface is displayed

B: Upper surface

b: Lower surface

Continued on next page

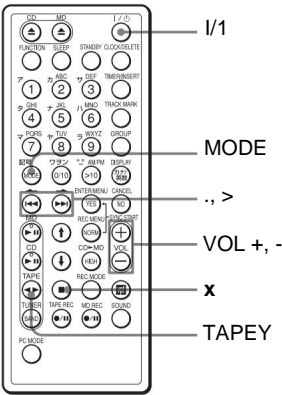
You can use it even if you only read here

Listening to the tape (continued)

Just a word

When the cassette lid is opened, the **traveling** direction is always facing B.

Other operations



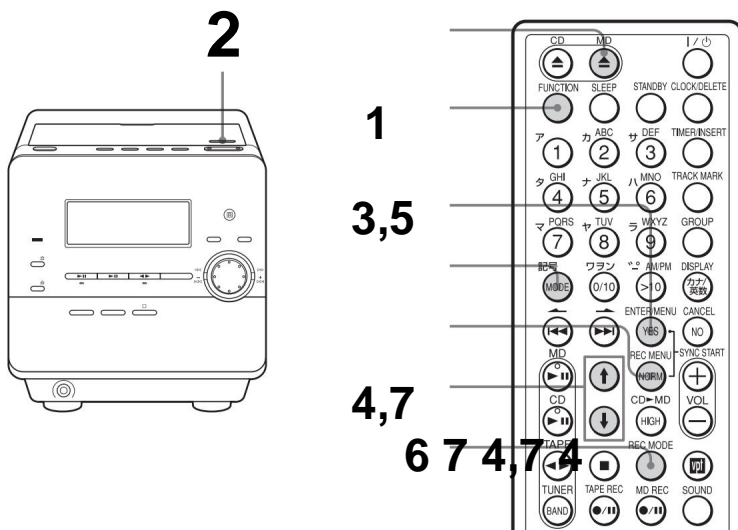
In such a case	button to push
adjust the volume	VOL (VOLUME on the main unit) +, -
stop playing	x
Tapey during playback to play the other side	
Fast forward or fast reverse or > (m or M on the main unit )	
ZPUSH OPEN to eject the tape	
Power on/off	I/1

To select the driving method (direction mode), each time you press the MODE button on the remote control, the mode changes as shown below.

	display window
Play only one <b>sideg</b>	
play both sides	h
Play both sides repeatedly j	

# Recording the entire tape onto an MD

(TAPE-MD synchronized recording)



See Preparation, "Connecting" (pages 22, 23).

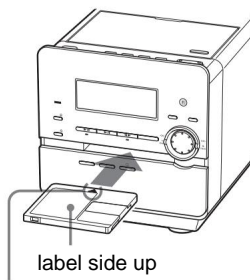
1



**Press the MDZ button and insert the recording MD.**

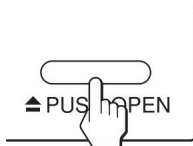
Pressing the button automatically turns on the power and raises the front panel. Insert the MD into the slot with the label side facing up.

Inserting an MD automatically lowers the front panel.



insert in the direction of the arrow

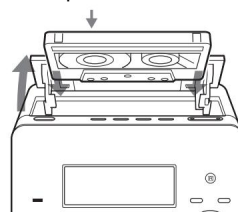
2



**Press ZPUSH OPEN to open the cassette lid and insert the tape.**

Use TYPE I (normal) tape. Also press ZPUSH OPEN when closing.

face up



Continued on next page

**3**

FUNCTION



Press the **FUNCTION** button **repeatedly** to display "MD" and **check the MD operation mode on the display window.**

For details, see step 3 on page 30 .

**Four**

REC MODE

**f**

ENTER/MENU



**Select the MD recording mode.**

**1** Press the REC MODE button to display the menu screen.

display window



**2** Press the M or m button or turn the jog dial to

Select "MD Recording Mode" and press the YES•ENTER/MENU (ENTER on the main unit ) button to confirm.

**3** Select the desired recording mode in the same way, and press the YES•ENTER/ MENU (ENTER on the main unit) button to confirm.

See step 4 on page 31 for details on the types of MD recording modes .

**Five**

FUNCTION



Press the **FUNCTION** button **repeatedly** until "TAPE" is displayed .

**6**

記号



**Press the MODE button to select the tape direction mode.**

g: When playing one side

h(j): when playing back both sides

7

REC MENU



f

ENTER/MENU



**start recording.**

**1** Press the REC MENU

NORM button to display the menu screen.

**2** Press the M or m button or turn the jog dial to

Select "TAPE ↔ MD" and press the YES•ENTER/MENU (ENTER on the main unit ) button to confirm. "Are you sure you want to start recording?" "Yes: press ENTER No: press CANCEL" is displayed .

**3** Press the YES ENTER/MENU (ENTER on the main unit) button to confirm To do.

Recording will start automatically.

If you insert an MD that has already been recorded, it will be recorded after the recorded part.

When recording is finished, the tape and MD automatically stop.



Continued on next page

Recording the entire tape onto an MD (TAPE-MD synchronous recording) (Continued)

Note •

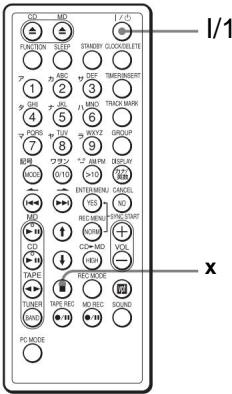
After stopping recording, do not unplug the power cord or move the unit while "Writing system file" is flashing. It may not be recorded. • "PCM recording", "Hi-SP recording"

"Audio", "Hi-LP recording", "LP2 recording", or "LP4 recording" will be displayed as "Hi MD Disc" or "LP:" if you try to play or edit it on a device that does not support each of them. is displayed and cannot be played or edited. • Even if you adjust the volume or sound quality during recording, the recorded track will not be affected. However, please note that if the volume is too loud, it may cause the sound to skip.

Just a word

- At the time of purchase, it is set to always create a new group for recording. A track number (track mark) is attached to the MD when recording starts, and a group is formed up to the point where recording ends. To record without creating a group, set "Group Recording Off" ("Recording by creating a new group" on page 68). • You can add song titles and group names while recording. For Hi-MD, the artist name and album name can also be added (pages 71-73). • If the clock is set, the recording date and time are automatically recorded on the MD (page 24). • Erasing tracks recorded on MD see "Erasing Songs and Groups " (page 78).

Other operations

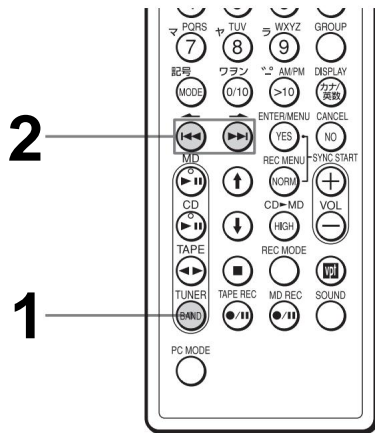


In such a case	button to push
stop recording	X
Power on/off	I/1

When "disk space is full" is displayed  
There is not enough free space on the disk to record any more.  
If other messages are displayed, see pages 110-116.

When MD ends in the middle of recording ,  
both MD and tape automatically stop.

# listen to the radio



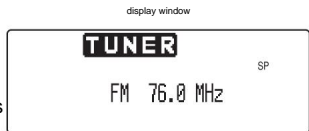
See Preparation, "Connecting" (pages 22, 23).

1

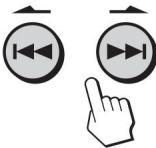


Press the **TUNER BAND** button to select "FM (TV)" or "AM" .

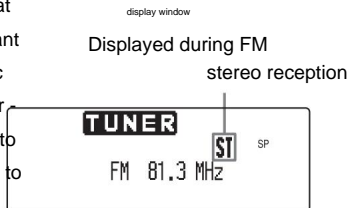
When you press the button, the power will automatically turn on and "FM (TV)" or "AM" will appear . Press again to switch.



2



> or . ( **TUNE +** or - on the main unit) button and hold it down until the numbers start to move, then **release your finger**. It will automatically tune in to the station and stop. Repeat this operation until the station you want to listen to is received, or if automatic reception fails, press > or ( **TUNE +** or - on the main unit ) repeatedly to tune to the frequency of the station you want to listen to.



Continued on next page

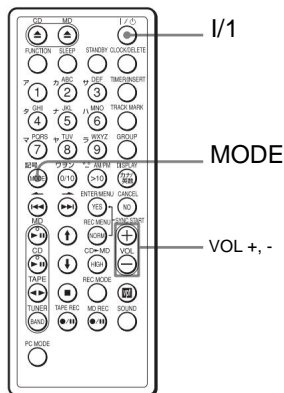
### Listening to the radio (Continued)

## Just a word

This unit has 76.0 to 90.0 MHz for FM ( 1ch to 3ch for TV), AM switches between 531 and 1,629 kHz . • Only FM stereo broadcasts can be listened to in stereo on this unit . AM and TV1-3ch stereo broadcasts are monaural. • If the FM stereo broadcast is noisy , press the MODE button repeatedly until "Monaural reception" appears on the display. The sound will be monaural. • "MONO" appears on the display window during monaural reception .

- It is convenient to store the stations you listen to often in advance (preset). For details on presets, see page 87.

## Other operations



In such a case	button to push
adjust the volume	VOL (VOLUME on the main unit) +, -
Power on/off	I/1

improve reception

For FM (TV1-3ch) broadcasting,  
extend the antenna as horizontally and straight as possible in a place with  
good reception, such as near a window (page 22).

For AM

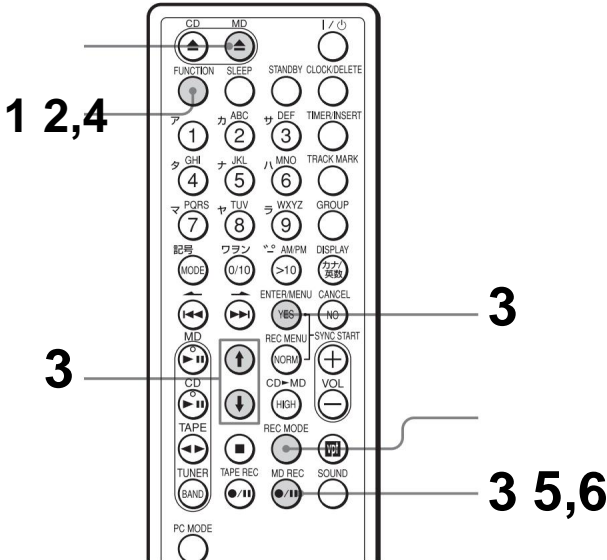
broadcasts Change the orientation of the loop antenna so that it faces the best reception (page 22).



# Recording radio, CD, tape, etc. to MD (manual recording)

can be use

Even if you



See Preparation, "Connecting" (pages 22, 23).

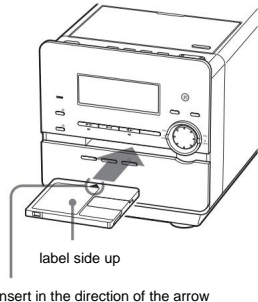
1



**Press the MDZ button and insert the recording MD.**

Pressing the button automatically turns on the power and raises the front panel. With the label side of the MD facing up, insert it into the slot.

Inserting an MD automatically lowers the front panel.



Continued on next page

## Recording radio, CD, tape, etc. to MD (manual recording) (Continued)

### 2

FUNCTION



Press the **FUNCTION** button repeatedly to display "MD" and check the MD operation mode on the display window.

For details, see step 3 on page 30 .

### 3

REC MODE



f

ENTER/MENU



**Select the MD recording mode.**

1 Press the REC MODE button to display the menu screen.

display window



2 Press the M or m button or turn the jog dial to

Select "MD Recording Mode" and press the YES•ENTER/MENU (ENTER on the main unit ) button to confirm.

3 Select the desired recording mode in the same way, and press the YES•ENTER/MENU (ENTER on the main unit) button to confirm.

See step 4 on page 31 for details on the types of MD recording modes .

### Four

FUNCTION



Press the **FUNCTION** button repeatedly to display the sound source you want to record, such as "CD".

- CD: Records the sound of the CD of this unit.  
Pause when you want to start recording.
- TAPE: Record the tape sound of this unit.  
Stop where you want to start recording.
- TUNER: Recording the radio sound of this unit  
Receive the radio station you want to record.
- LINE: Record from the device connected to the LINE IN jack of this unit  
Set the connected device to playback mode.

Five



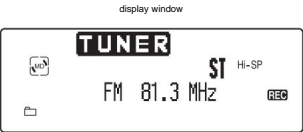
## Press the **MD REC z/X** button.

The **REC** display will flash and the MD will be paused .

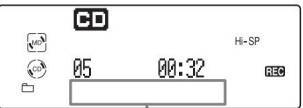
6

### start recording.

When recording radio: Press the MD REC z/X button.



When recording a CD: Press the MD REC z/X button and immediately press the CDu button.



CD-TEXT CD: Song title, artist name

When recording a tape: Press the MD REC z/X button and immediately press the TAPEY button.



When recording sound from a connected device : Press the MD REC z/X button to immediately put the device into playback mode. Recording will start.



If you insert an MD that has already been recorded, it will be recorded after the recorded part.

A group is formed up to the end of recording (default setting).

If you are recording a CD, recording will stop when the CD finishes playing . If you are recording any other sound source, recording will continue until you stop it.

## Recording radio, CD, tape, etc. to MD (manual recording) (Continued)

## Just a word

- After stopping recording, do not unplug the power cord or move the unit while "Writing system file" is flashing. It may not be recorded. • "PCM recording", "Hi-SP recording"

"Audio", "Hi-LP recording", "LP2 recording", or "LP4 recording" will be displayed as "Hi MD Disc" or "LP:" if you try to play or edit it on a device that does not support each of them. is displayed and cannot be played or edited. • If the

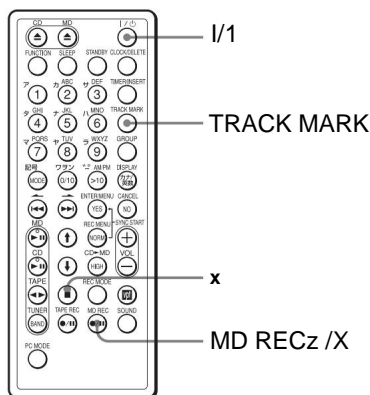
clock is set, the recording date and time are automatically recorded (page 24). • You can add song titles and group names while recording.

For Hi-MD, the artist name and album name can also be added (pages 71-73). • At the time of purchase, continuous track numbers (track marks) are automatically added to the MD when there is no sound for more than 2 seconds in the sound source from LINE. To cancel the setting, see "Adding Track Marks Automatically to Silent Portions" (page 69).

abstract

- Erasing tracks recorded on MD  
see “Erasing Songs and Groups  
” (page 78).

## Other operations



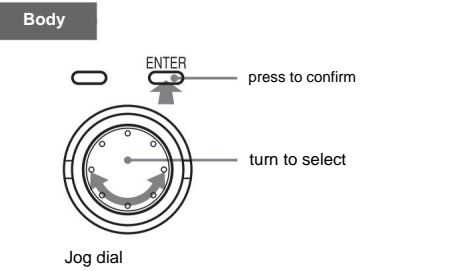
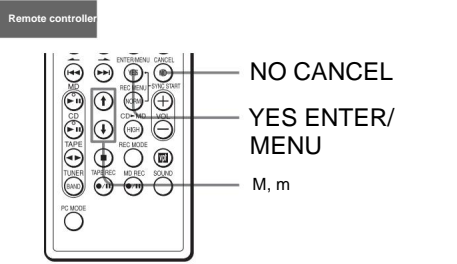
In such a case	button to push
Pause recording*	MD RECz /X
stop recording	x
TRACK MARK for adding track numbers (track marks)	
Power on/off	I/1

\* Press again to resume recording. A new track mark is automatically added.

MD stops automatically when MD ends in the middle of recording .

# How to operate the menu

This unit uses menus to operate convenient functions for recording, playback, and editing. Menu operations are performed in the following procedure.



1 Turn on the power.

2 Press and hold the YES•ENTER/MENU (ENTER on the main unit) button for at least 2 seconds . A menu item appears. (Example) When the function is MD



3Press the M or m button on the remote

Turn the jog dial on the main unit to select an item. The selected item flashes.

4 YES ENTER/MENU (on the main unit) or ENTER) button to confirm the item.

5Follow steps 3 and 4 as indicated. repeat. The settings are confirmed when the YES•ENTER/ MENU (ENTER on the main unit ) button is pressed last.

To return to the previous step, press the NO•CANCEL (CANCEL on the main unit) button .

To cancel midway, press the NO•CANCEL (CANCEL on the main unit) button for 2 seconds or longer.

**Pressing the M or m button on the remote control** turns the jog dial on the main unit. Pressing the YES•ENTER/MENU button on the remote control is equivalent to pressing the ENTER button on the main unit . To press the NO•CANCEL button on the remote control, press the CANCEL button on the main unit . On the following pages, remote control operations are explained.

Menu

Operation

# menu list

The menu items that can be set are as follows.  
If you set "Language" to "English", the menu will be displayed in English (page 90).

please note  
The displayed items vary depending on the operating status and disc settings.

## When "MD" is displayed with the FUNCTION button

1st layer	2nd layer	function	Reference page
edit/ Edit	Title input/	song name, group name, artist name*1,	71
	Edit	Title Input Album name*1, disc name	
		Group Settings / Setting Groups	74
		Group set	
		Ungroup / Ungroup	75
		Group release	
		move Changing the order of songs and groups	76
		Erase Erasing songs and groups	78
display/ Display		Initialize*1/Reset the formatted disc to the state at the time of purchase	81
	Elapsed time/	Display playing time	55
	Lap time		
		Remaining time for one song/ Remaining time for the song being played	55
	1 Remain		
		Remaining playback time/ Display remaining playback time	55
	All Remain		
	Title display 1/2 /	Display song title, group name, artist name*1, album name*1, disc name	55
	Title 1/2		
		Remaining recording time/ Remaining recording time	55
	REC Remain		
	Recording date/time	Display recording date and time	55
	REC Date		
	Recording/playback format/	Displays the recording/playback format of the track being played	55
	Codec*1		
Useful functions/ Search for Useful	Recording/playback format/		
	Track Mode*2		
	song search/Search song title, group, artist*1,		65
Search for Useful Album*1		Setting the clock display/ 12-hour display/24-hour display	
	CLOCK Display		

1st layer	2nd layer	function	Reference page
Synchro recording mode/ Synchro REC Mode	CD ÿ MD	Synchronized recording from CD to MD	29
	CDÿTAPE	Synchronized recording from CD to tape	83, 84
	MDÿTAPE	Synchronized recording from MD to tape	83, 84
	TAPEÿMD	Synchronized recording from tape to MD	39
Timer settings/Timer playback/Settings for timer playback			93
TIMER	TIMER Play		
	Timer recording / Making settings for timer recording		94
	TIMER REC		
Sleep settings/ SLEEP			96
Sound Settings/Presets Ikora Sound Quality (Rock, Pop, Jazz, Vocal, 91 SOUNDizer /PRESET EQ Classic) settings.			
	VPT/VPT	92 of VPT effects (SURROUND, WIDE, OFF) make settings	
Settings/ Clock Settings/CLOCK Setting the clock			
Option Backlight setting / Setting the display window backlight on/off 89			
	Backlight		
	Set the disc mode/ disc mode (Hi-MD or MD) to 89		
	Disc Mode	Record	
	Resume/ Resume	Setting the resume function on/off	59
	Display language/ Language	Setting the display language (Japanese/English)	90
	Display format selection *2 / Display format for titles entered on a computer		91
	Setting JP Character (kanji priority/kanji-kana alternate)		
	Setting the linear phase/speaker sound quality Linear Phase		92

\*1 Appears when a disc recorded in Hi-MD mode is inserted.

\*2 Appears when a disc recorded in MD mode is inserted.

Continued on next page

Menu list (continued)

When "CD" is displayed with the FUNCTION button

1st layer	2nd layer	function	Reference page
display/	elapsed time/	Display playing time	54
Display	Lap time		
	Remaining time for one song/ Remaining time for the song being played		54
	1 Remain		
	Remaining playback time/ Display remaining playback time		54
	All Remain		
	Title display 1/2*1/ song name, group name*2, artist name, Title 1/2 Displays album name and disc name		54
Useful functions/Clock display settings/ 12-hour display/24-hour display settings			
Useful	CLOCK Display		
Synchro recording mode/	CD ÷ MD	Synchronized recording from CD to MD	29
	CD÷TAPE	Synchronized recording from CD to tape	83, 84
Synchro REC Mode	MD÷TAPE	Synchronized recording from MD to tape	83, 84
	TAPE÷MD	Synchronized recording from tape to MD	39
Timer settings/Timer playback/Settings for timer playback			
TIMER	TIMER Play		
	Timer recording / Making settings for timer recording		94
	TIMER REC		
Sleep settings/			
SLEEP		Setting the sleep function	96
Sound Settings/Presets Ikora Sound Quality (Rock, Pop, Jazz, Vocal, 91 SOUNDizer /PRESET EQ Classic) settings.			
	VPT/VPT	92 of VPT effects (SURROUND, WIDE, OFF) make settings	
Various settings/ Clock settings/CLOCK Setting the clock Option			
Backlight settings/Setting the display window backlight ON/ OFF89			
	Backlight		
	Set the disc mode/ disc mode (Hi-MD or MD) to 89		
	Disc Mode	Record	
	Resume/	Setting the resume function on/off	59
	Resume		
	Display language/	Setting the display language (Japanese/English)	90
	Language		
	Display format selection *3 / Display format for titles entered on a computer		91
	Setting JP Character (kanji priority/kanji-kana alternate)		
	Setting the linear phase/speaker sound quality		92
	Linear Phase		

\*1 Displayed for CD-TEXT, CD, ATRAC CD, and MP3CD.

\*2 Displayed for ATRAC CD/MP3 CD.

\*3 Appears when a disc recorded in MD mode is inserted.



When "TAPE", "TUNER" or "LINE" is displayed with the FUNCTION button

1st layer 2nd layer Broadcasting		Reference page
station name input *1/ Radio Edit	Function Add station name while receiving preset station	88
Useful functions/Clock display settings/ 12-hour display/24-hour display settings		
Useful	CLOCK Display	
Synchro recording mode/ Synchro REC Mode	CD ↔ MD	Synchronized recording from CD to MD 29
	CD↔TAPE	Synchronized recording from CD to tape 83, 84
	MD↔TAPE	Synchronized recording from MD to tape 83, 84
	TAPE↔MD	Synchronized recording from tape to MD 39
Timer settings/Timer playback/Settings for timer playback		93
TIMER	TIMER Play	
	Timer recording / Making settings for timer recording	94
	TIMER REC	
Sleep settings/ SLEEP	Setting the sleep function	96
Sound Settings/Presets Ikora Sound Quality (Rock, Pop, Jazz, Vocal, 91 SOUNDizer /PRESET EQ Classic) settings.		
	VPT/VPT	92 of VPT effects (SURROUND, WIDE, OFF) make settings
Settings/ Clock Settings/CLOCK Setting the clock		
Option Backlight setting / Setting the display window backlight on/off 89		
	Backlight	
	Set the disc mode/ disc mode (Hi-MD or MD) to 89	
	Disc Mode	Record
	Display language/	Setting the display language (Japanese/English) 90
	Language	
	Display format selection *2 / Display format for titles entered on a computer	91
	Setting JP Character (kanji priority/kanji-kana alternate)	
	Setting the linear phase/speaker sound quality	92
	Linear Phase	

\*1 Appears when "TUNER" is selected with the FUNCTION button.

\*2 Appears when a disc recorded in MD mode is inserted.

me  
D  
yu  
9  
Navigation  
work

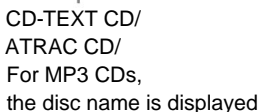
You can check the CD or MD information by repeatedly pressing the **DISPLAY** button .



The display may differ depending on the operating status of the CD or MD and group settings.

The total number of songs and the total playing time are displayed.

For CD-TEXT CDs, ATRAC CDs and MP3 CDs , the disc name is also displayed.



Each time you press the DISPLAY button, the display changes as follows.

The same information can be checked during manual recording to MD.

time (track name/artist name)\*1 rCurrent track number and remaining time per track (track name/artist name)\*1 rNumber of remaining tracks and remaining playback time\*2 (Disc name)\*1

Pressing the DISPLAY button will also display information such as the artist name and album name.

\*2 Main playback mode is "Normal playback", sub playback  
Appears when the mode is "Normal Play" or "1 Track Play".

During repeat playback, the number of remaining tracks is not displayed.

ATRAC CD, the information entered in SonicStage is displayed. For MP3 CDs with ID3 tags\*1, ID3 tag information is displayed.

**T**Group number\*2, file number\*3,  
Current playback time,  
track title/artist name\*4, **file**  
number\*3, remaining time per  
track, track name/artist name , **remaining**  
track count\*3, remaining playback time\*5,  
disc name , **disc** name/artist name, group  
name/album name. song title

\*1 ID3 tag is a format for adding information such as song title, album name, artist name, etc. to MP3 files. This unit supports version 1.0/1.1/ 2.2/2.3. If you use any other version, ID3 tag information will not be displayed correctly. Versions 2.2/2.3 do not support unsynchronized, compressed or encrypted formats.

\*2 When the main playback mode is set to "Normal Play" or "Group Play"

RAW" and "GROUP PROGRAM PLAY". The playlist number is displayed when the main playback mode is "playlist playback". \* When a main playback mode other than "Normal playback" is selected, 3

When the player is on, the main playback mode mark is also displayed.

\*4 If there is no ID3 tag, instead of the song title

Display the file name.

\*5 "---:--" is displayed during MP3 file playback.

is shown.

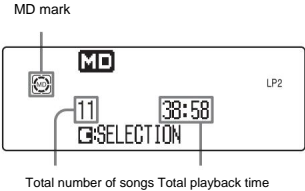
Note

During repeat playback (page 64), "Remaining number of tracks and remaining playback time" is not displayed.

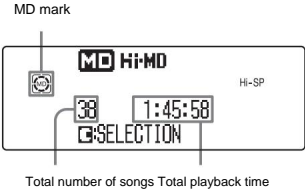
MD stopped

The disc name, total number of tracks, and total playback time are displayed.

For MD



For Hi-MD



Each time you press the DISPLAY button, the display changes as follows.

For MD

tGroup number\*1, track number\*2, playback time, track name

rTrack number\*2, Remaining

recording time rRemaining number

of tracks\*2, Remaining playback time, Disc name\*3 rDisc name,

Group name, Track name rRecording date and time



MD  
playback

For Hi-MD

tGroup number\*1, track number\*2 and playback time, track

name/artist name rTrack number\*2, remaining recording

time and free disk space\*3 rRemaining number of

tracks\*2, remaining playback time/disc name\*4 rTrack

number\*5 or disc name/artist name, disc name\*5 or

group name/album name, track name rRecording date

and time

- \*1 Appears when a track set to a group is selected. Not displayed depending on the selected main playback mode.
- \*2 When a main playback mode other than normal playback is selected, the main playback mode mark is also displayed.
- \*3 When using Hi-MD mode, when the remaining recording time is "00:00", the free disk space is displayed as "2.0MB". This is a system limitation and 2.0MB is the capacity of the spare area.
- \*4 The display differs depending on the selected main playback mode. \* When a song that is not set to 5 groups is selected
- It will be displayed in.

How to read the display window (continued)

Just a word

Track names, disc names, group names, album names, and artist names are displayed only when they are recorded on the MD . Not displayed when not recorded.

During MD playback

Each time you press the DISPLAY button, the display changes as follows.

For MD

tGroup number\*1, number of track being played\*2, elapsed playback time, track namernumber of track being played \*2, remaining time per track, track namernumber of remaining tracks\*2, remaining time/disc name\*3 rDisc name, group name, track name rRecording date and time rRecording / playback format

For Hi-MD

tGroup number\*1, track number being played\*2, elapsed playback time, track name/artist name r Track number being played\*2, Remaining time per track , Track name/ artist name r Number of remaining tracks\*2, Remaining playback time/disc name\*3 r Track number\*4 or disc name / Artist name, Disc name\*4 or Group name/Album name, Track titleRecording date and timerRecording / playback format

- \*1 Appears when a track set to a group is selected. Not displayed depending on the selected main playback mode.
- \*2 When a main playback mode other than normal playback is selected, the main playback mode mark is also displayed.
- \*3 The display differs depending on the selected main playback mode. \* When a song that is not set to 4 groups is selected It will be displayed in.

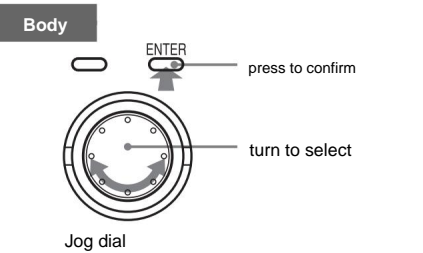
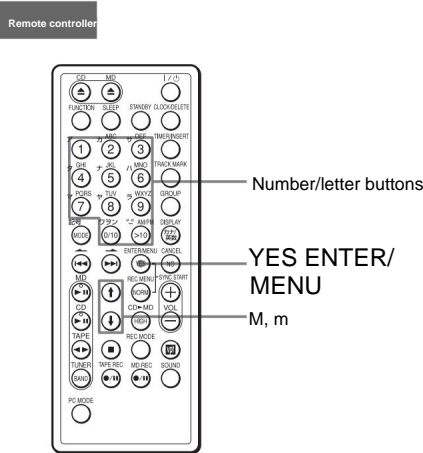
Hint The track name, disc name, group name, album name, and artist name are displayed only when they are recorded on the MD . Not displayed when not recorded.

Note During repeat playback (page 64), "Remaining number of tracks and remaining playback time" is not displayed.

## select the song you want to hear

### (Direct song selection)

You can select a CD or MD track you want to listen to and immediately start playing it.



### Operate while looking at the display window

## 1 Press the M or m button.

A list of groups or songs appears. A blinking group or track is selected.

**2**To select a song in a different group, use the M or m button to select the group containing the song you want to hear, Press the YES•ENTER/MENU button to confirm .

A list of songs in the selected group is displayed. This step is not necessary when selecting songs that do not belong to a group.

## 3 Press the M or m button to listen

select the desired track and press the YES•ENTER/ MENU button to confirm. Playback of the selected song starts.

### Just a word

For CDs and MDs with no group set, By pressing the GROUP button and then pressing the . or > button, you can move 10 tracks forward or 10 tracks forward.

Notes • The content displayed may be limited depending on the selected main playback mode (page 60) . • If you use the M or m button or the jog dial to select tracks directly, "Shuffle play" ( page 64) will be cancelled.

### Operate with numeric buttons

When divided into groups, only songs within the selected group can be selected.

Press the number/letter button for the track number. Playback of the selected song starts.

Note When a main playback mode (page 60) other than "Normal Play", "Group Play" or "Playlist Play" is selected, you cannot directly select tracks with the number/letter buttons.

### Just a word

• Press the >10 button to select songs after the 10th song. Then, press the number/ character buttons (1 to 0) in order of the tens digit and the ones digit. Example: To select track 23, press >10•2•3 . You can also select the 10th track with the 0/10 button. • To select tracks after the 100th, press the >10 button twice , then press the number/ letter buttons for the 100's place, the 10's place, the 1's place, and so on. • To select tracks after the 1,000th track, press the >10 button three times, then press the number/letter buttons in the order of thousands, hundreds, tens, ones. Press

CD

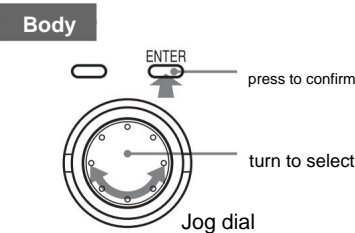
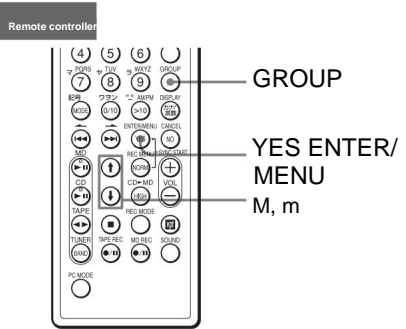
•

MD

playback

# Select the group you want to listen to (top direct song selection)

Since only the list of groups is displayed , you can quickly find the desired song on an ATRAC CD/MP3 CD or MD containing many songs.

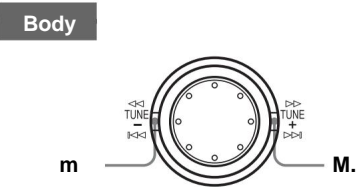
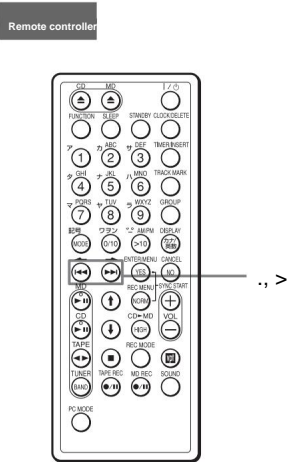


- 1 Press the GROUP button.  
“” flashes.
- 2 Press the M or m button to select the  
A list of groups is displayed.
- 3 Press the YES•ENTER/MENU button to confirm . Playback starts from the song of the selected group.

Tips • You can also play only the songs of the selected group (“Listening to Group Songs”, page 61) • “Group – —” indicates songs that do not belong to any group. • For details on MD group settings, see “Creating Groups” (page 74).

# Find the part you want to hear (search)

You can use the . and > buttons to search for the part you want to hear in the song.

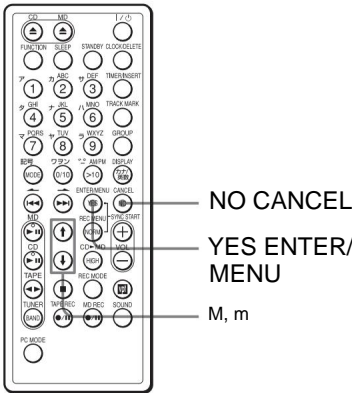


How to find	How to operate
Search while listening (Search)	Hold down the ., > ( m, M on the player) button during playback. When you lift your finger, it will play from there.
Search while watching the playback time on the display window (high-speed search)	Hold down the ., > ( <b>m, M on the main unit</b> ) button while pausing . Release your finger to pause at that position.

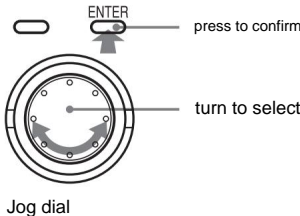
# Listen from where you stopped (resume playback)

Even if you stop playing a CD or MD once, you can set it so that the next time you play it, it resumes where you left off.

Remote controller



Body



**1**In the menu operation (page 49), select  
Select "Settings" – "Resume".

**2** Press the M or m button to select  
Select "Zoom On" and  
Press the YES•ENTER/MENU  
button to confirm .

"R" appears in the display window. When stopped, the display window shows the number of the track that will start playing and its playing time.

Press and hold the CDu (or MDu) button to **play from the beginning of the CD or MD** .

To cancel resume playback, select  
"Resume Off" in step 2.

CD  
•  
MD  
playback

# Enjoying various playback modes

You can listen to songs in various ways by combining the three playback modes of main playback mode, sub playback mode, and repeat playback. For example, to listen to one favorite song repeatedly , set the main playback mode to "Normal playback", the sub playback mode to "1", and the repeat playback to " " .



## Main playback

**mode** Select a unit such as a song or group to play.

Symbol Menu display Playback status	
(None) Normal playback Plays all disc tracks once	
	Group playback*1 The song currently playing is included. play only the group that
	Artist Play your favorite artist*2 play only songs from
	Album playback*2 play only
	Bookmark Bookmark Play Play only songs marked with
PGM program Play the songs you want to listen to in the order you want Play them in order	
	Playlist Selected m3u playlist Play *3 Plays only songs

\*1 Displayed only for ATRAC CD/MP3 CD or MD .

\*2 Displayed only in Hi-MD mode. \*3 Appears only for MP3 CDs. An m3u playlist is a file that contains the order of MP3 files to be played . It can be used when creating a CD-R/ RW with encoding software that supports the m3u format.

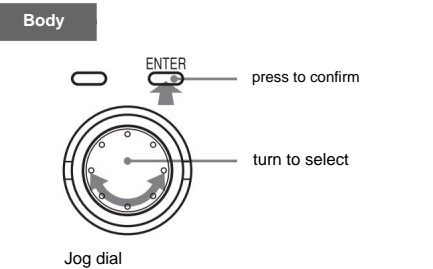
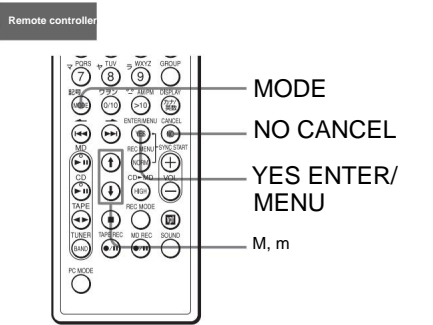
## Sub playback mode

Selects the playback method for the track selected in main playback mode.

Display (meaning) Playback method	
(none)	Play all songs once
(normal playback)	Play only one selected song
1 (1 track playback)	
SHUF	selected in main playback mode
(shuffle play)	Play songs in random order

## Repeat playback

Set when you want to repeat playback in the selected main playback mode/sub playback mode.





Select main playback mode and listen to songs

1During playback or stop

Press the YES•ENTER/MENU button . Display the main playback mode selection screen.

2 Press the M or m button to

select the playback mode of  
Press the YES•ENTER/MENU button to confirm .  
After that, operate according to the operation method for each main playback mode.

To cancel the selected main playback mode, select "Normal playback" in step 2 above.

Listening to songs (normal playback)

- 1 Perform steps 1 and 2 of " Selecting the main playback mode to listen to songs ", then select "Normal playback" in step 2.
- 2 Select the desired group with the M or m button and press the YES•ENTER/MENU button to confirm . A list of songs in the selected group is displayed. This step is not necessary if the disk does not have at least one group .
- 3 Select your favorite song with the M or m button, Press the YES•ENTER/MENU button to confirm . Playback of the selected song starts. Playback starts from the selected track and plays the last track on the disc.

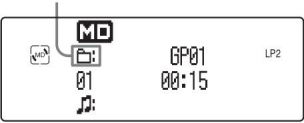
Listening to group songs (group playback)

- 1 Perform steps 1 and 2 of "Selecting the main playback mode to listen to songs ", then select "Group playback" in step 2. A list of groups is displayed.

- 2 Press the M or m button to select the desired group , then press the YES•ENTER/MENU button to confirm. A list of songs in the selected group is displayed.

- 3 Press the M or m button to select your favorite song, then press the YES•ENTER/MENU button to confirm . Playback of the selected song starts. Playback will start from the selected song and play the last song in the group.

The mark of the selected main playback mode is displayed.



please note  
If there are songs that are not included in a group, "Group —" is displayed for MDs, and "Root" is displayed for MP3 CDs .

Just a word

During group playback, you can also cue a group by following the steps in "Group direct song selection" ( page 58).

Selecting an artist and listening to songs (Artist playback) (Hi-MD mode only) If the song has an artist name, you can search for the song by the artist name and listen to it.

- 1 Perform steps 1 and 2 of "Selecting the main playback mode to listen to songs ", and then select "Artist playback" in step 2. A list of artists will be displayed in alphabetical order .

Continued on next page

## Enjoying various playback modes (continued)

**2** Press the M or m button to select the artist name you want, then press the YES•ENTER/ MENU button to confirm. A list of songs by the selected artist appears in the order in which they were recorded.

**3** Press the M or m button to select your favorite song, then press the YES•ENTER/MENU button to confirm . Playback of the selected song starts. Playback starts from the selected song and ends with the last song in the song list.

### Tip You can

cue the artist by pressing the GROUP button and then pressing the . or > button during playback .

**Selecting and listening to albums (Album playback) (Only in Hi-MD mode) If the songs have album names, you can search for songs by album name and listen to them.**

**1** “Select main playback mode and listen to songs”  
Perform steps 1 and 2 on page 61, then select “Album Play” in step 2. A list of albums is displayed in alphabetical order .

**2** Press the M or m button to select the desired album name, then press the YES•ENTER/MENU button to confirm. A list of songs in the selected album is displayed in the order in which they were recorded.

**3** Press the M or m button to select your favorite song, then press the YES•ENTER/MENU button to confirm . Playback of the selected song starts. Playback starts from the selected song and plays the last song of the album.

### Tip During

playback, press the GROUP button and then press the . or > button to cue the album.

## Selecting and Listening to Your Favorite Songs (Bookmark Playback)

You can add bookmarks to your favorite songs and play only those songs. However, the order of songs cannot be changed.

## To bookmark

**1Play** the song you want to bookmark, and u

Press the button for 2 seconds  
or more. The first track of the bookmark is registered.



**2Repeat** step 1 to add bookmarks.

You can bookmark up to 512 songs on a CD and all recorded songs on an MD .

### Note If

you eject the disc, the registered bookmarks will also be deleted.

## To play bookmarked songs

**1** “Select main playback mode and listen to songs”

Perform steps 1 and 2 on page 61, then select “Bookmark play” in step 2.

**2** Press the M or m button to select the song you want to play, and press the YES•ENTER/MENU button to confirm . From the selected song, only the bookmarked songs are played in ascending order of the song number.

The mark of the selected main playback mode is displayed



Displayed for songs with bookmarks

To delete a bookmark, play the song you want to delete and press the u button for 2 seconds or more.

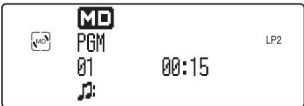
**Listening to songs and groups in your preferred order (Program Play)** You can arrange songs and groups in your preferred order and listen to them.

### Program a song (track program)

- 1 "Select main playback mode and listen to songs" (page 61), then select "Program Play" in step 2 .
- 2 Press the M or m button to select "Track" and press the YES•ENTER/MENU button to confirm .
- 3 Press the M or m button to select "Song Name Search" and press the YES•ENTER/MENU button to confirm .  
\* You can also select "Group Search" for discs with groups.  
With Hi-MD, you can also select "Artist Search" or "Album Search".
- 4 Press the M or m button to select a song, Press the YES•ENTER/MENU button to confirm .  
If you searched for a song other than "Song name search" in step 3, continue this operation until you decide the song.

**5Repeat** steps 3 and 4 to program the track.  
be.  
Up to 64 songs can be programmed.

**6After** selecting, hold down the YES•ENTER/MENU button for at least 2 seconds to confirm. The setting is confirmed, "PGM" is displayed, and playback starts from the first track of the program .



- Tips** • If the sound source is a music CD or MD, you can record programmed tracks ( pages 67, 84 ).
- The programmed contents are retained until the CD or MD is ejected.

### Programming a group (group program) (other than music CDs)

- 1 "Select main playback mode and listen to songs" (page 61), then select "Program Play" in step 2 .
- 2 Press the M or m button to select "Group" and press the YES•ENTER/MENU button to confirm .
- 3 Press the M or m button to select a group, and press the YES•ENTER/MENU button to confirm .
- 4**Repeat** step 3 to program the group. Up to 20 can be programmed.

**5After** selecting, press YES ENTER/MENU  
Press the button for 2 seconds or more to confirm. The program is confirmed, " " is displayed, and playback starts from the first track of the first programmed group.

### Just a word

The programmed contents are retained until the CD or MD is ejected.

To check the program During programming: Press the YES•ENTER/MENU button .  
While program playback is stopped: Press the > or . button .

Continued on next page

## Enjoying various playback modes (continued)

### Listening to songs in the selected playlist (m3u playlist playback) (MP3 CD only)

You can listen to songs in your favorite m3u playlist.

1 "Select main playback mode and listen to songs"

Perform steps 1 and 2 on (page 61), and select "PLAY LIST" in step 2.

2 Press the M or m button to select a playlist, and press the YES•ENTER/MENU button to confirm .

3 Press the M or m button to select the track you want to play, and press the YES•ENTER/MENU button to confirm . Playback of the selected song starts.  
Playback starts from the selected song and plays the last song in the playlist.

### About playlist files

A playlist file determines the playing order of music files. Playlist files that can be used with this unit can be created using a text editor, etc. Write the path (storage location and file name) of the music files in the order they are played, add the extension "m3u" (capital letters are also acceptable), and record them on the disc.

Note

Only "/" and "\" can be used as path separators.

### Playlist example

Enter the path from the root of the media where the playlist is recorded. Example:

\\Music\\Popular\\New\\01new.mp3

\\Music\\Popular\\New\\May\\may01.mp3

- Save playlists in the root directory. (Do not put it in a subdirectory.)
- Up to 8 playlist files can be stored on this unit.  
recognize the file. • A  
maximum of one playlist file can be recorded on this unit.  
Recognizes up to 128 steps.

- On this unit, one line in a playlist is

Up to 126 characters can be registered for folder names and file names . Example: \\ABC\\XYZ\\TEST.MP3

ÿ 126 characters or less 126 characters or less

### Select sub playback mode

You can listen to the track selected in main playback mode in a variety of ways. For example, if you select "Group Play" in the main playback mode and "Shuffle" in the sub playback mode, you can play the songs in the selected group in random order.

Press the MODE button on the remote controller repeatedly to display normal playback (no display), "1" (single track playback), or "SHUF" (shuffle playback).

To cancel, press

the MODE button on the remote controller repeatedly until "1" and "SHUF" disappear.

Note If

you perform direct song selection (page 57) during shuffle play , shuffle play will be canceled.

### Listening repeatedly (repeat playback)

You can listen to the song repeatedly in the playback mode selected in the sub playback mode.

Press and hold the MODE button on the remote control for 2 seconds or more until " " is displayed .

### to unlock

Press the MODE button on the remote controller for 2 seconds or more  
to make " " disappear.

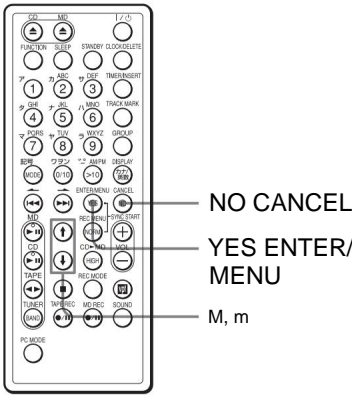
Note If

you start recording while repeat playback is stopped, repeat playback will be canceled.

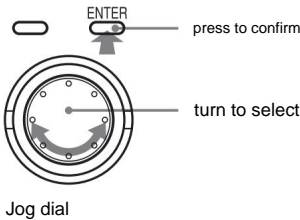
## Search for songs (Search) (For Hi-MD and MD only)

You can search by song title, group name, artist name, or album name to easily find your favorite songs. The artist name and album name are displayed only when the disc is used in Hi-MD mode.

Remote controller



Body



1 Select "Useful Functions" – "Song Search" from the menu operations (page 49) .

2 Press the M or m button to select a song search method, then press the YES•ENTER/ MENU button to confirm.

display	retrieval method
Song name search	Search by song name
Group search	Search by group name
Artist Search	Search by artist name * Search
Album search	* Search by album name
* Displayed only in Hi-MD mode.	

3If you selected "Song name search" in step 2, proceed to step 4.

Otherwise, press the M or m button to select the desired group, artist or album, and

Press the YES•ENTER/MENU button to confirm . A list of songs in the selected group, artist or album is displayed.

4 Press the M or m button to select a song. and press the YES•ENTER/MENU button to confirm. Playback of the selected song starts.

Note •

After step 4, main playback mode and sub playback mode other than "Normal playback" will be canceled (repeat playback will work). • While searching for songs, untitled songs are displayed in the song list. is displayed at the end of

- Do not operate while "Sorting" is displayed . This unit reads the MD information and rearranges it.

Tip To name tracks on an MD with this unit, see "Name " (page 71).

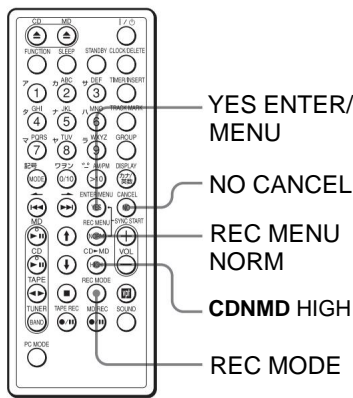
CD

MD  
playback

# Recording only the track being played from the CD

(REC IT recording)

With the push of a button, you can record from the beginning of the currently playing track. This is convenient when you want to immediately record the song you are listening to.



1Insert a recording MD.

2 Insert a CD to play.

3When using a blank disc, set the disc mode to “Hi-MD” or “MD” using the menu operation. For details, see “Selecting the disc mode” ( page 90).

4 Press the REC MODE button to Select sound mode.  
For details, see step 4 on page 31 .

5Play the song you want to record.

## 6 CDNMD for fast recording

Press the HIGH (HIGH SPEED REC on the main unit) button. Recording will begin after returning to the beginning of the track being played. For pre-recorded MDs, it will be recorded after the part that has already been recorded. The MD will automatically stop when recording is finished, but the CD will continue to play. No sound is output from the speakers or headphones during high-speed recording.

### To record at normal speed while listening to music

In step 6 above, perform steps 1 to 3 of “To record at normal speed while listening to music ” ( page 32 ) .  
Recording will begin after returning to the beginning of the track being played.

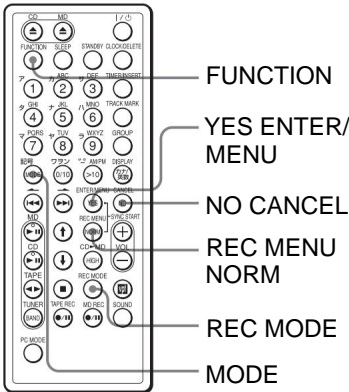
If "CD > MD" is displayed, the remaining time for MD recording is insufficient. If you don't mind being able to record the track being played to the end , press the YES•ENTER/MENU button . To stop recording, press the NO•CANCEL button. If other messages are displayed , see pages 110-116.

Note  
Grouping is not possible during REC IT recording even if “Group recording on” is selected in the menu operation (page 68). Also, see “Notes” and “Tips” on pages 33 and 34.

# Select and record your favorite songs from the CD

## (CD-MD program synchronized recording)

You can record your favorite songs on the CD in any order.



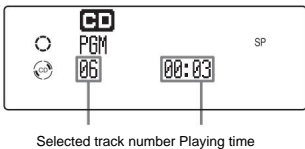
1 Insert a recording MD.

2 Insert a CD to play.

3 Press the **FUNCTION** button to Display "CD".

4 Perform steps 1-6 of "Programming Songs" (page 63), select the song you want to record, and start programmed playback.

Track order in the program



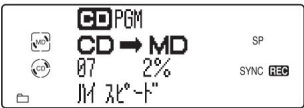
5 Press the **x** button to program playback stop.

6When using a blank disc, set the disc mode to "Hi-MD" or "MD" using the menu operation. For details, see "Selecting the disc mode" ( page 90).

7 Press the **REC MODE** button to select the recording mode. For details, see step 4 on page 31 .

### CDNMD for 8 -speed recording

Press the **HIGH (HIGH SPEED REC on the main unit) button**.



Recording will begin after returning to the programmed first track. For pre-recorded MDs, it will be recorded after the part that has already been recorded. When recording ends, both CD and MD automatically stop. No sound is output from the speakers or headphones during high-speed recording.

### To record at normal speed while listening to music

In step 8 above, perform steps 1 to 3 of "To record at normal speed while listening to music " (page 32) . Recording will start after returning to the programmed first track.

Selecting and recording your favorite songs from a CD (CD-MD program sync recording) (Continued)

If "CD > MD" is displayed, the remaining time for MD recording is insufficient. If you do not mind being able to record the programmed track to the end , press the YES•ENTER/MENU button . When you stop recording Press the NO•CANCEL button. If other messages are displayed , see pages 110-116.

**Note**  
For other matters, see "Notes" and "Tips" on pages 33 and 34.

# Create a new group and record (group recording)

This unit is set to always create a new group when recording to an MD (default setting). This is convenient when recording several CDs on one MD .

A maximum of 255 groups can be created with a disc used in Hi-MD mode, and a maximum of 99 groups can be created with a disc used in MD mode.

## 1 Press the REC MODE button to

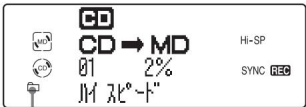
Select "MD group recording"  
Press the YES•ENTER/MENU button to confirm .

## 2 Press the M or m button to select

Select "Loop Recording On" and  
Press the YES•ENTER/MENU button to confirm . At the time of purchase, it is set to "Group recording on".

## 3 Record using your preferred recording method.

Example) CD-MD high-speed synchronized recording



Displayed during recording when "Group recording is on"

A group is created up to the end of recording .



**To record without creating a group,** select

"Group recording off" in step 2 above. After recording, press MDu to start playback from the first track on the disc .

**To play back the recorded content**

**immediately after recording with "Group recording on"**

Press MDu.

Playback starts from the first track of the recorded group.

When **REC IT recording is**

**performed**, group recording is not possible even if REC IT recording is performed with "Group recording on" . After recording, press MDu to play the recorded song.

Tips • You

can name a group while recording ("Name" (page 71). • See pages 36 and 70 for details on the MD group function .

---

## Adding Track Marks Automatically to Silent Portions (track mark mode)

This unit is set so that a new track mark (track number) is automatically added when there is a silent portion of 2 seconds or more in the sound source while recording from LINE to MD (default setting). ).

---

**1** Press the REC MODE button , select "Track Mark Mode" with the M or m button, and press the YES•ENTER/ MENU button to confirm.

---

**2** Select "Auto" with the M or m button.

and press the YES•ENTER/MENU button to confirm. At the time of purchase, it is set to "Auto".

Record

---

**If you do not want track marks to be added automatically** , select "Manual" in step 2.

Tips • Track marks

may appear even when the sound source continues with a soft sound.

- When recording from a CD to an MD, playback will follow the track number of the sound source.

- Track marks are added automatically. •

Track marks are not displayed during manual recording to MD.

In addition to modes, you can manually add track marks to desired positions (page 48) and divide tracks after recording (page 80).

Note

Depending on the condition of the sound source, track marks may not be attached. In that case, add track marks as described in "Dividing tracks " (page 80).

# before editing

The following editing operations can be performed on the MD of this unit. You can enjoy various playback modes (pages 60-64) by naming songs and creating groups .

- Assigning a name Page 71 •

Creating a group Page 74 • Deleting

a group Page 75 • Changing the order of

songs Page 76 • Deleting songs and groups

Page 78 • Dividing songs Page 80 •

Combining songs into one Page 80 •

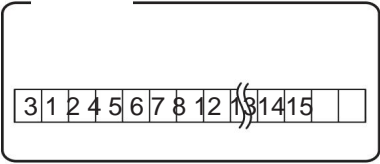
Initialize the disk page 81

please note

- Play-only discs cannot be edited. • Close the accidental erasure prevention knob (page 118). di).
- If "Writing system file" flashes after editing, the edited information is being recorded to the disc. Do not remove the power cord or move the machine. It may not be recorded correctly.

## Group structure and how it is recorded

Disk disk before group setting



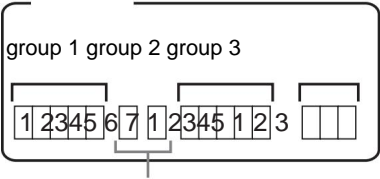
1 to 5 tracks to "Group 1"

m8~12 tracks to "Group 2"

Tracks 13-15 are in "Group 3" and

tracks 6 and 7 are not included in the group

Disk disk after group setting



Songs that are not in a group are considered to belong to "Group -".

A maximum of 255 groups can be created with a disc used in Hi-MD mode, and a maximum of 99 groups can be created with a disc used in MD mode.

### How group information is recorded

When editing using the group function, the group information is automatically recorded on the MD as the "disc name".

Specifically, the following character string is written in the disc name recording area.

example) 0;Favorites//1-5;Rock//6-9;Pops//

## one two three

1 Disc name: "Favorites"

Group name for songs 21 to 5: "Rock"

Group name for songs 36 to 9: "Pops"

Therefore, I used the group function to edit

If the MD is read by a device that does not support the group function or a device that does not operate the group function, the character string above will be displayed as the "disc name".

# Give a name

## (Title input)

You can name the MD, such as a track name or group name, or change the name. You can also add artist names and album names to discs used in Hi-MD mode . Can only be operated with the remote control.

### Types of characters that can be entered

- Katakana (single-byte)
- Upper and lower case alphabet letters A to Z
- Numbers 0 to 9
- Symbols !"#\$%&()\*+,-./: (space)

□

Number of characters that

**can be entered** Approx. 200 characters for titles such as song titles, group names, and disc names (when all character types are mixed)

Number of characters **that can be entered on one**

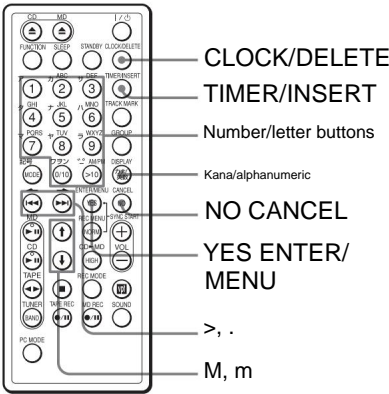
**disc** • Hi-MD mode: Approx. 55,000 characters • MD

mode: Approx. 1,700 characters The number of titles that can be registered varies depending on the number of characters.

Note •

The handset can display Kanji and Hiragana characters, but cannot input them. You can use the included software SonicStage to make these inputs.

- If you use "/" between characters such as "abc/def" in the disk name or group name, you may not be able to use the group function (only in MD mode).



## Give a name

Names can be assigned in any state, whether during playback, recording or while stopped. When assigning a track name, artist name, or album name while playing or stopped, select the song you want to name before entering the name. When naming a group, select a song in the group you want to name.

1 Select “ Edit ” – “Enter Title” from the menu operations (page 49).

2 Press the M or m button to select a title and Press the YES•ENTER/MENU button to confirm .

### Name display

song title song name input

Group name\*1 Input group name

Artist name\*2 Enter artist name

Album name\*2 Enter album name

Disc name\*3 Input disc name

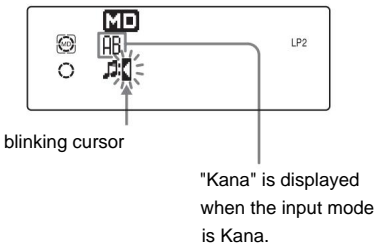
\*1 Not displayed during REC IT recording (page 66).

\*2 Displayed only in Hi-MD mode. \*3 Not displayed during recording.

Continued on next page

## Naming (Continued)

To add a track name, artist name, or album name during recording, select the track to be named with the M or m button and press YES•ENTER/MENU to confirm . The cursor blinks in the input area, and you can enter characters.



### 3 Give it a name.

- 1 Select the character input mode with the DISPLAY•kana/alphphanumeric buttons. Katakana input mode: "Kana" is displayed. Alphabetic/numeric input mode: "AB" is displayed. **2**Enter your name. Use the buttons below to remove and add characters.

function	operation
Move the character cursor left or right with > or . push.	
Press 1 TIMER/INSERT character space before the cursor . put in.	
Delete CLOCK/DELETE character on cursor . push.	
Stop typing. NO CANCEL push.	

### 4 Press the YES ENTER/MENU button Press to confirm.

Tip • The group

name remains the same until the point where recording is stopped.

- If a name other than the group name is selected during synchronized recording from a CD,

If you have added a title, you will return to the song selection screen after step 4 . You can continue to enter other song titles (up to 99 songs). To finish editing, press the NO•CANCEL button for 2 seconds or longer. To enter another title, press the NO•CANCEL button briefly to return to step 2.

**To change the name, follow the steps in "Name" (71 to this page) to change the name.**

#### Notes

- If you display a title entered in kana on another MD device that does not support kana display, it will be displayed in romaji. At that time, "^" is attached to the beginning and end (only in MD mode). • This unit cannot rewrite track names, group names, and disc names that are longer than 200 characters and were assigned by another device (only in MD mode). •

You cannot edit the kanji name entered with the supplied SonicStage software .

Characters that can be entered

A letter is assigned to each number/letter button, and the letter changes in the following order each time the button is pressed.

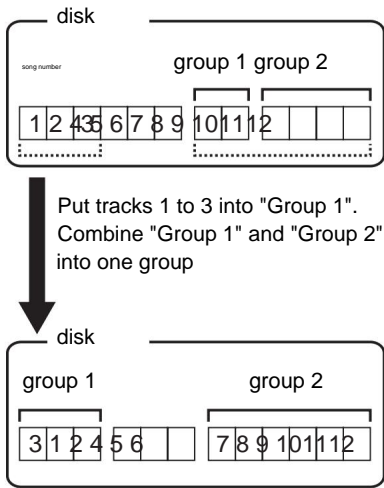
button	Katakana input ("Kana" display)	Alphabet/number input ("AB" display)
1a	ア → イ → ウ → エ → オ カ → キ → ク → ケ → コ	1
2 ABC	カ → キ → ク → ケ → コ	A → B → C → a → b → c → 2
3 sa DEF	サ → シ → ス → セ → ソ	D → E → F → d → e → f → 3
4 GHI	タ → チ → ツ → テ → ト → ヲ	G → H → I → g → h → i → 4
5 na JKL	ナ → ニ → ノ → ネ → ナ	J → K → L → j → k → l → 5
6 Ha MNO	ハ → ヒ → フ → ヘ → ホ	M → N → O → m → n → o → 6
7 Ma PQRS	マ → ミ → ム → メ → モ	P → Q → R → S → p → q → r → s → 7
8 Ya TUV	ヤ → ユ → ヨ → ヤ → ユ → ヨ	T → U → V → t → u → v → 8
9 la WXYZ	ラ → リ → ル → レ → ロ	W → X → Y → Z → w → x → y → z → 9
0/10 wow	ワ → ヲ → ヲ	0
>10 " ° AM/PM	" → ° → ~	
mode symbol	! → " → # → \$ → % → & → ( → ) → * → . → ; → < → = → (スペース) ← : ← / ← + ← , ← ' ← - ← + ← + ← ' ← - ← + ← ? → >	

MD edit

# make a group

## (Group setting)

You can combine multiple songs that have already been recorded into a group, or combine multiple groups into a single group. Track numbers are assigned sequentially starting from 1 for each group .



Discrete track numbers or groups such as 1 and 3, 2 and 4, 3 and 7, 8, 4 and 9 to 12 cannot be combined. It is not possible to create a new group with a track in the middle of an existing group as the first or last track. During operation, track numbers are displayed as consecutive numbers on the disc.

## Notes

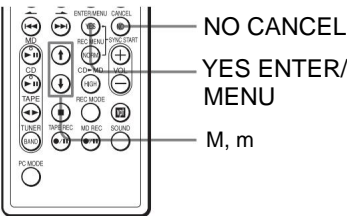
- Track names, group names, art

If the total number of characters for the track name, album name, and disc name exceeds the maximum number of characters that can be entered,

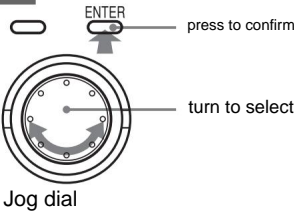
- When using in Hi-MD mode, group settings can be made, but group names cannot be assigned in step 4.
- When using in MD mode, the group setting is you can't. •

Only consecutive songs or groups can be combined. If you want to put together songs or groups that are not continuous , rearrange the order of the songs or groups (pages 76, 77) to make the songs or groups you want to put together continuous.

## Remote controller



## Body



- 1 During stop, menu operation (49 page), select “Edit” – “Group Settings”.



The track number of the first track flashes.

## 2 Press the M or m button to

Select the song you want to be the top of the group, display it, and press the YES•ENTER/MENU button to confirm. For discs that already have groups, you can only select the first track number of a group or the track number of a track that does not belong to a group. When the first track is set, the track number of the last track flashes.

## 3 Press the M or m button to

Select the song you want to be the last song in the group, display it, and press the YES•ENTER/MENU button to confirm. If you select a track that already belongs to a group as the first track, the track number of the last track in the group will be displayed. Once the final track of the group has been determined, you will be able to enter the group name.

4Press the number/letter button to name the group ("Name" page 71).

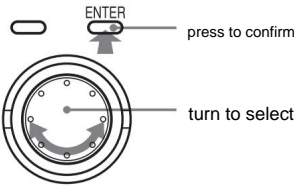
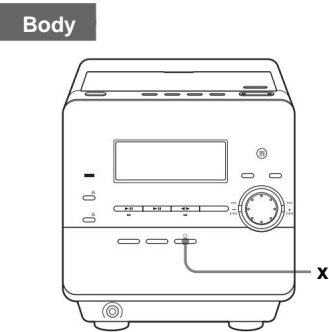
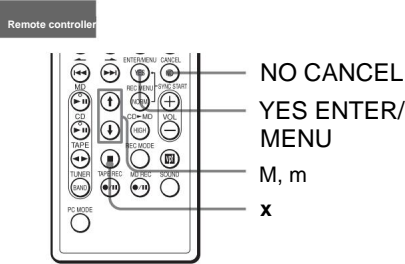
5 Press the YES ENTER/MENU button.  
Press to confirm.  
The group is now set.

please note

- When selecting the last track in step 3, You can only select the song after the song, the last song of an existing group, or a song that does not belong to a group.
- Sound breaks when group settings are made during playback there is.

# ungroup

(Ungroup)



Jog dial

1 Select the group you want to cancel  
("Selecting the group you want to listen to" ( page 58 )), and check the content.

2 Press x.

Continued on next page

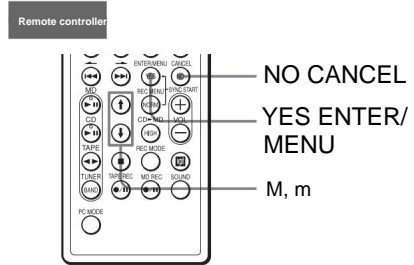
## Ungrouping (Continued)

3 Select “Edit” – “Ungroup” from the menu operations (page 49). "Are you sure you want to cancel the group?" and "Yes: ENTER No: Press CANCEL" are displayed.

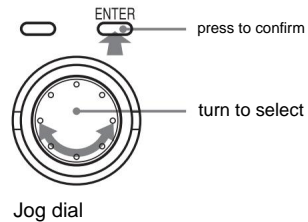
4 Press the YES•ENTER/MENU button to confirm . Group is canceled.

## change song order(move)

You can move songs and groups to change their order.



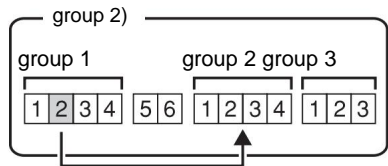
### Body



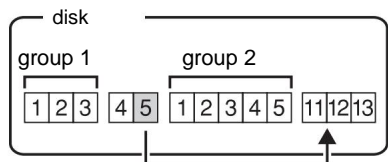
## move song

You can move songs to another group or move them out of a group.

Example 1: To move a track belonging to a group to another group (in the figure, move the second track in group 1 to the third track in



Example 2: Moving a track that does not belong to a group between tracks that do not belong to a group (In the figure, track 5 is moved between tracks 11 and 12)





- 1 While the song you want to move is playing or stopped
- Select “Edit” – “Move” – “Move Song” from the menu operations (page 49) . The selected track number or the group number to which the selected track belongs flashes in the middle of the display window.

For example 1



For example 2



- 2 To move the track outside the group , proceed to step
3. To move the song to another group , press the M or m button to display the group to move to, then

Press the YES•ENTER/MENU button to confirm .

For example 1



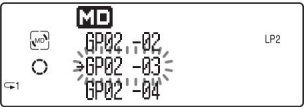
To move tracks within the same group, select the group number to which the track belongs.

- 3 Press the M or m button to move

display the track number of

Press the YES•ENTER/MENU button to confirm .

For example 1



For example 2



The song will now move.

## rearrange the order of groups

- 1 Play a song in the group you want to move

Select “Edit” – “Move” – “Move Group” from the menu operations (page 49) . The number of the group containing the track being played flashes in the middle of the display window.

- 2 Press the M or m button to move

desired location and press the YES•ENTER/MENU button to confirm.

Example: To move the first group (Group01) between the second group (Group02) and the third group (Group03)



### Notes

- If a song title or group name has been entered, you can check the group name by pressing the > button during operation. Press the > button to return to the track number or group number.
- If you move all the tracks in a group, that group is automatically deleted from the disc.

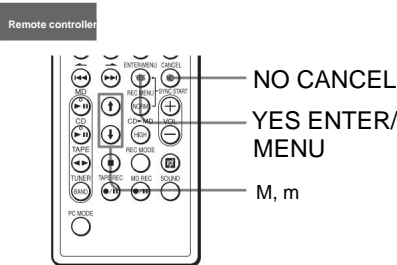
# delete a song or group

## (erase)

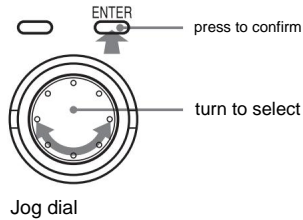
Tracks and groups that have been erased cannot be recovered. Check the contents carefully before erasing.

**When erasing songs transferred from a computer** If you try to erase a song transferred from a computer on this unit, the message "Are you sure you want to delete the songs transferred to/recorded from the PC?" If you just press the YES•ENTER/MENU button to delete it, the rights of the song will be as follows. • For songs transferred in Hi-MD mode, inserting the disk from which all songs have been deleted into this unit and connecting it to a computer automatically restores the rights to the songs . If even one song remains on the disc, the song rights will not be returned. • For songs transferred in MD mode, one song rights will be lost. If you do not want to lose the rights to the songs, connect the player to your computer before erasing the songs to restore the rights to the songs.

Note when using in Hi-MD mode Data other than music data (text data, image data, etc.) cannot be deleted. To erase data other than music data, see "Formatting a disc" (page 81).



### Body



### delete one song

- 1 While the track you want to delete is playing, select "Edit" – "Erase" – "Erase 1 track" from the menu operations (page 49). "Are you sure you want to delete the song?" and "Yes: ENTER No: Press CANCEL " are displayed. If the selected song was transferred from a PC, the message "Are you sure you want to delete the PC transfer/recorded song?" is displayed.
- 2 Press the YES•ENTER/MENU button to confirm . The song will be erased and the next song will play. Track numbers after the deleted track are moved up one by one .

**Note**  
If you erase all tracks in a group, that group will be automatically erased.

### To erase part of a song

To erase only unwanted parts such as silent parts, add track marks to the beginning and end of the unwanted parts (page 80) and erase them.

## delete group

Delete the group name and all songs in the group.

### 1 Select the group you want to delete (

select the group you want to listen to" ( page 58 )), and check the content.

### 2 Press x.

### 3 Select " Edit " – "Erase" – "Erase 1 Group"

from the menu operations (page 49). "Are you sure you want to delete the group?" and "Yes: ENTER No: Press CANCEL" are displayed. If the selected group contains songs transferred from a PC, the message "Are you sure you want to delete the PC transferred /recorded songs?"

### 4 Press the YES ENTER/MENU button

Press to confirm.

## erase all songs

Erase all songs on the disc.

For discs used in Hi-MD mode, only the music data will be erased. If you want to erase data other than music data, such as text data and image data, format the disc (page 81).

### 1 Play the disc you want to erase,

Check the contents of the task.

### 2 Press x.

### 3 Select "Edit" in the menu operation (page 49).

"Songs " – "Erase" – "Erase All Tracks".

"Are you sure you want to delete all songs?" and "Yes: ENTER No: Press CANCEL" are displayed. If the disc contains songs transferred from a PC, the message "Are you sure you want to delete the PC transferred/recorded songs?" is displayed.

### 4 Press the YES•ENTER/MENU button to

confirm . "Writing system file" flashes and all tracks are erased. When erasing is completed, "BLANK DISC" blinks for discs used in MD mode.

For Hi-MD discs, "Nothing recorded" flashes.

To cancel the setting partway through,

press the NO•CANCEL button for 2 seconds or longer.

Press the NO•CANCEL button

to return to the previous setting .

### Just a word

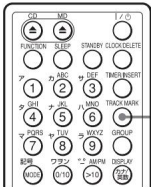
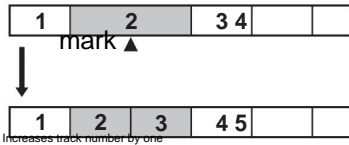
A disc used in "MD mode" can also be used as a Hi-MD disc by erasing all data and reselecting "Hi-MD" in disc mode (page 90).

MD edi

**divide the song

divide)**

You can add a track mark in the middle of a song and play the next song after that point. When the songs are divided, the song numbers are as follows.



TRACK MARK

During playback or playback pause, press the TRACK MARK button at the position you want to mark. "Track mark added" is displayed and the track number is incremented by one. From there, it will be recorded as the next song.

please note

- Songs transferred from a computer cannot be divided.
  - If you use the divide function, the bookmark registration and the program will disappear.
  - You can't divide the song by the beginning and end of the song.
  - When the message "Cannot edit" is displayed, cannot be separated.
- MDs may become undivided after repeated editing. This is an MD system limitation (page 122) and is not a malfunction. • If the number of songs exceeds the maximum number of songs (2,047 songs on a disc used in Hi-MD mode, 254 songs on a disc used in MD mode) as a result of dividing the tracks, the tracks cannot be divided.

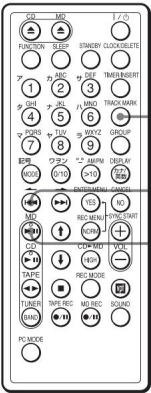
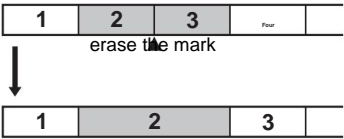
The new song that is divided does not have the recording date and time.

However, the song title is not included.

**make one song 

(combine)**

You can combine two consecutive songs into one song. The track numbers are as follows.



TRACK MARK

MDu

Play the song you want to erase track number 1 ,  
**Press MDu to pause playback.**

**2** Press the button to set to the beginning of the song (00:00). For example, if you want to connect songs 2 and 3, put them at the beginning of song 3.

**3 Press the TRACK MARK button.**  
"Track mark deleted" is displayed and the specified track is connected to the previous track.

Note • The

recording date and song title are those of the first of the two songs that are connected.  
will be

- If you connect two consecutive songs belonging to different groups, the second song will be registered to the group to which the previous song belongs. Also, if you join consecutive tracks that are registered to a group and tracks that are not registered to a group, the settings for the latter track will be the same as those for the previous track.
- Track marks cannot be deleted from songs transferred from a computer.
- Songs recorded in different recording modes cannot be combined. • It is not possible to connect a digital sound source recorded from a CD with an analog sound source recorded from a tape/ radio /LINE.

---

# Initialize the disk (format)

If you are using a disc in Hi-MD mode, you can use the format (initialization) function to return the disc to the state it was in when you purchased it. This function can only be used when using a disc in Hi-MD mode.

---

## Disk type After initialization

The Hi-MD format exclusive "Nothing is recorded" 1GB disc is displayed. All data including data other than music data will be deleted.  
Note: Song rights are automatically restored when the disc is inserted into this unit and connected to a computer.

---

60/74/80 minutes "Blank disc" is displayed. All data including data other than music data will be deleted. Music data will lose the rights to the transferred songs once.

---

## Notes

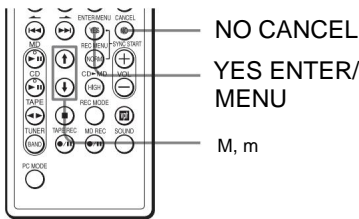
- Formatting a disc will erase data other than music data. If the disc contains data other than music data, connect it to a computer and check the contents. • Formatting a 60/74/80 minute disc will cause

If you transfer the song from , the song will also be deleted, and the right to transfer the song will be deleted once. If you do not want to erase the rights to the songs, transfer the songs to your computer, restore the rights, and then format the card. • Even if you have formatted a 60/74/80 minute disc with the SonicStage software or selected the 60/74/80 minute blank disc operation mode, you cannot use the blank disc with this unit. The operation mode at this time follows the "Disc Mode" setting in the menu.

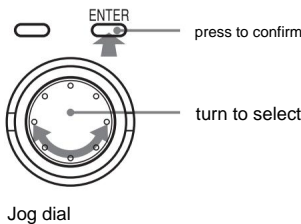
Continued on next page

# Formatting a disk (Continued)

## Remote controller



## Body



1 While stopped, select “Edit” – “Initialize” from the menu operations (page 49).

2 Press the M or m button to select "Yes", and press the YES•ENTER/MENU button to confirm. When initialization is complete, “Nothing recorded” or “Blank disc” is displayed.

## To stop setting in the middle

Press the NO•CANCEL button for 2 seconds or longer.

Press the NO•CANCEL button to return to the previous setting .

**(REC IT recording – TAPE)**

	DISC	MD	17.0
	FUNCTION	SLIP	ERRORY BLOOD CELLS
ア	カ	サ	TRUTH INSH
	1	2	
ク	ナ	ミ	TRICK MARK
	4	5	
マ	ロ	シ	GROUP
	7	8	
ROM	ワ	シ	SLIP
	0.10	>1.0	FEEL
	ENTER MENU	CATCH	
MD	REC MENU	STOP PAUSE	
CD	CD-MD	VOI	
TAP	REC MODE		
TUNER	TWE RE	NOISE	SOUND
END			
PC MODE			

REC MODE

Use TYPE I (normal) tape.

**3** Press the MODE button repeatedly to select single- **sided recording (g)** or **double-sided recording (h)**.

**4**Insert a CD or MD to play,  
Play the song you want to record.

**6** Press M or m to match the sound source.

Select "CDȳTAPE" or "MDȳ TAPE" and press the YES•ENTER/ MENU button to confirm. "Are you sure you want to start recording?" "Yes: ENTER No: Press CANCEL" is displayed.

Returns to the beginning of the track being played and starts playing the CD or MD 8 seconds after entering the recording state .

CD → TAPE  
01 00:03 SYNC REC

After the selected track has been recorded, the tape will automatically stop, but the CD or MD will continue to play.

recording on both sides (h), start recording from the top side . If you start from the bottom side (b), the recording will stop at the end of the bottom side. • If h is selected and recorded, the upper side will

Even if it ends, it will be recorded again from the beginning of the song on the bottom side.

- Even if you change the volume or sound quality during recording, the recorded sound will change.  
It doesn't end.
- To erase songs recorded on tape, see page 86.  
please look at.

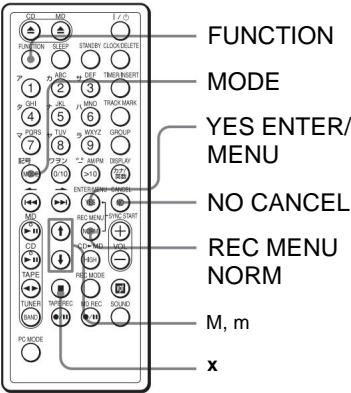
please note

There will be approximately 8 seconds of silent recording at the start of recording and when the tape is reversed . If you press CDu or MDu immediately after step 7, recording will start from that point.

# Recording a CD or MD

(CD-TAPE program synchronized recording) (MD-TAPE program synchronized recording)

You can record an entire CD or MD, or record your favorite songs on a CD or MD in any order.



**1** Insert the cassette with the side to be recorded facing up.

Insert a tape for recording into the tape deck.

Use TYPE I (normal) tape.

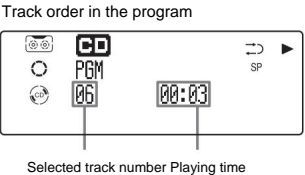
**2** Press the **FUNCTION** button repeatedly to display "TAPE".

**3** Press the **MODE** button repeatedly to select single- **sided recording (g)** or **double-sided recording (h)**.

**4** Insert a CD or MD.

**5** Press the **FUNCTION** button repeatedly to display the sound source "CD" or "MD". To record the entire song, proceed to step 8. To select and record only your favorite songs, proceed to step 6.

**6** Perform steps 1-6 of "Programming Songs" (page 63), select the song you want to record, and start programmed playback.



**7** Press the **x** button to program playback stop.

**8** Press the **REC MENU NORM** button to display the menu screen.

**9** Press **M** or **m** to match the sound source. Select "CDyTAPE" or "MDy TAPE" and press the **YES•ENTER/ MENU** button to confirm. "Are you sure you want to start recording?" "Yes: ENTER No: Press CANCEL" is displayed.



10 Press the YES ENTER/MENU button.

Press to confirm. It returns to the programmed first track, and CD or MD playback starts 8 seconds after entering the recording state . After the selected song has been recorded, the tape, Both CD and MD stop automatically.

Press x to stop recording halfway .

If the tape ends during recording

Tapes, CDs and MDs will automatically stop.

- Tips • When the cassette lid is opened, the traveling direction is always facing B. will be
- When recording on both sides (h), start recording from the top side . If you start from the bottom side (b), the recording will stop at the end of the bottom side. • If h is selected and recorded, the upper side will
- Even if it ends, it will be recorded again from the beginning of the song on the bottom side.
- Even if you change the volume or sound quality during recording, the recorded sound will change. It doesn't end.
  - To erase songs recorded on tape, see page 86. please look at.

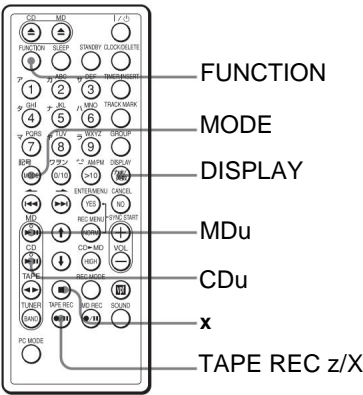
please note

There will be approximately 8 seconds of silent recording at the start of recording and when the tape is reversed . If you press CDu or MDu immediately after step 10, recording will start from that point.

# Record manually

(manual recording - TAPE)

You can record only your favorite part of a CD, MD, radio, etc.



1Insert the cassette with the side to be recorded facing up. Insert a recording tape into the tape deck.

Use TYPE I (normal) tape.

2Repeat the function button

Press to display “TAPE”.

3 Press the MODE button repeatedly

to select single- sided recording (g) or double-sided recording (h).

Continued on next page

**Manual recording (manual recording - TAPE) (Continued)**

**4** Press the FUNCTION button repeatedly to display the sound source you want to record , such as " TUNER ."

Pause at the point where you want to start recording.


- MD: Records the sound of this unit's MD.

Pause at the point where you want to start recording.

- TUNER: Record the radio sound of this unit.  
Ru  
Tune in to the station you want to record.
- LINE: Connect to the LINE IN terminal of this unit.  
Recording from a  
connected device Set the connected device to  
playback mode.

**5 Press the TAPE REC z/X button**

vinegar.


" and the tape enters recording pause mode.

**6 Start recording.**

- CD: Press the TAPE REC z/X button and immediately press CDu.
- MD: Press the TAPE REC z/X button and immediately press MDu.
- TUNER: Press the TAPE REC z/X button

push.  
Recording will start immediately.

- LINE: Press the TAPE REC z/X button and immediately set the connected device to playback mode.

" is up and recording starts.

To stop recording halfway, press x.

Even if you stop recording, playback of the sound source will continue.

Press TAPE REC z/X to pause recording . Even if you pause, the sound source will continue playing. Press again to resume recording.

**To erase a song recorded on tape**

Insert the tape from which you want to erase **one** track.

**2** Press the FUNCTION button repeatedly to Display "TAPE".

**3** Press the TAPE REC z/X button.

**4** Press the TAPE REC z/X button again. Erasing of the track starts, and it is erased up to the point where you stopped by pressing the x button.

Tips • If you

press the DISPLAY button while recording from a CD or MD, the display will switch in the same way as when playing a normal CD or MD (pages 54-56). • When the cassette lid is opened, the direction of travel is always facing B. If you want to record on the bottom side, press REC MODE before step 6 to display b .

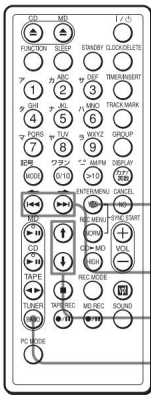
- When recording on both sides (h), start recording from the top side . If you start from the bottom side (b), the recording will stop at the end of the bottom side.

• Even if you change the volume or sound quality during recording, the recorded sound will change. It doesn't end.

- If the tape ends during recording, the tape will automatically stop.

# memorize the station

You can automatically store stations with good reception and use the stored number (preset number) to select the next station. 20 FM (TV) stations and 10 AM stations can be stored for a total of 30 stations .



YES ENTER/  
MENU  
NO CANCEL  
M, m  
TUNER  
BAND

1 Press the TUNER BAND button to  
Select FM (TV) or AM.

2 Hold down the TUNER BAND button  
for at least two seconds .

3 Press the M or m button to select  
“Auto Preset,” and  
Press the YES•ENTER/MENU button to  
confirm . “Are you sure you want to execute  
Auto Preset?” “Yes: ENTER No: Press  
CANCEL” is displayed.

4 Press the YES ENTER/MENU button  
push.  
Only stations with good reception conditions are  
automatically stored in order from preset number  
1, from low frequency to high frequency.

Memorizing stations that could not be memorized by  
auto preset due to weak radio waves, or selecting  
and memorizing preset numbers 1 Press the TUNER  
BAND button to select FM (TV) or AM. 2 Press the  
> or (TUNE + or – on the main unit) button to  
tune in the station you want to memorize.

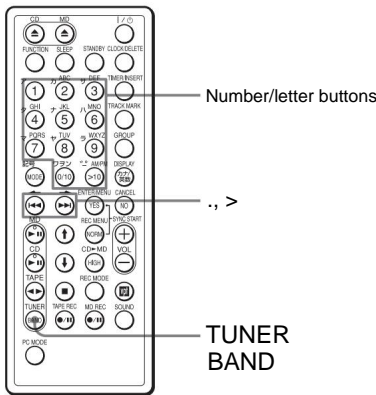
3 Hold down the TUNER BAND button for 2  
seconds or more .  
4 Press the M or m button to select “Manual  
Preset , ” then press YES•ENTER/MENU to  
confirm. The preset number and frequency flash.  
5 Press the M or m button to select the preset  
number you want to store, and press the  
YES•ENTER/ MENU button to confirm. The  
received station is memorized.

Radio

# Listen to stored stations

(Preset tuning)

You can easily select preset stations.



## 1 Press the TUNER BAND button to select FM (TV) or AM .

2 Press the M or m button to select the preset number of the station you want to listen to,

Press the YES•ENTER/MENU button to confirm . You can also select a preset number directly by pressing the number/letter buttons. If the preset number is 10 or higher, press the >10 button, then press the number/letter buttons for the tens digit, the ones digit, and so on. Example: For preset number 12 , press >10t1t2.

Assign a station name to a stored station 1 Follow steps 1 and 2 of "Listening to stored stations" So choose a station.

2 Select "Enter station name" using the menu operation (page 49). 3 Enter the station name (up to 16 characters).

operation		button to use
Select the input mode (Kana/ DISPLAY •Kana/ Alphanumeric)		<small>alphabetic</small>
choose a letter		Press the number/letter button
Move the cursor > or .		
erase characters		CLOCK/DELETE
TIMER/INSERT to insert characters		

4 Press the YES•ENTER/MENU button.

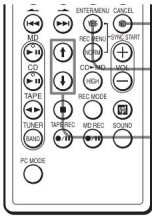
Characters that can be entered are

- Katakana (single-byte)
- Upper and lower case letters A to Z
- Numbers 0 to 9
- Symbols ! " # \$ % & ( ) \* / : (space) . ; < = > ? @ \_ + - ' ,

For details on how to enter characters, see " Name " (page 71).

various settings

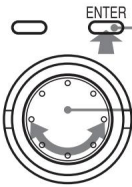
Remote controller



NO CANCEL  
YES ENTER/  
MENU

M, m

Body



press to confirm

turn to select

Jog dial

4 Press YES while "Time" is flashing

Press the ENTER/MENU button.  
See page 24 for details.

Tip To switch

between 12-hour display and 24-hour display, select  
"Convenient functions" - "Clock display settings" from the menu  
and select either "12-hour display/24-hour display".  
Press the YES•ENTER/MENU button to confirm.

## Turning on/off the backlight of the display window

You can set the backlight of the display window  
to always light or not.

## change the time

(Clock setting)

You can change the set date and time.

1 During stop or playback, the year

Press and hold the CLOCK/ DELETE  
button until the number flashes . The  
same operation can be performed after  
selecting "Settings" - "Clock setting" in  
the menu operation (page 49).

2 Press the YES ENTER/MENU button

Press repeatedly to make the item you  
want to change blink.

3 Change the desired items according to steps

2 and 3 of "Setting the clock" (page 24) .

1During stop or playback,

Select "Various settings" – "Backlight  
settings" in the operation (page 49).

2 Press the M or m button to turn on

Or select "Off" and  
Press the YES•ENTER/MENU button to  
confirm .

various settin

---

# Select disc mode

When the current recording disc is a blank disc, either convert the disc to Hi-MD format, or

This is a function to select whether to convert to MD format. Set the disc mode to "MD" when using a disc recorded with this unit on a device that does not support Hi-MD.

---

**1** In the menu operation (page 49), select

Select "Type Settings" – "Disc Mode".

---

**2** Press the M or m button to

Select "Hi-MD" (default setting) or "MD",

Press the YES•ENTER/MENU button to confirm .

When the disc mode is set to "Hi-MD", "Hi-MD" lights up in the main unit's display window.

---

## Notes •

When using a 1 GB disc dedicated to the Hi-MD standard

You can also select "MD" in the "Disc Mode" setting, but the only operating mode that can be used is the Hi-MD mode.

- Even if you have formatted a 60/74/80 minute disc with the SonicStage software or selected the 60/74/80 minute blank disc operation mode, you cannot use the blank disc with this unit. The operation mode at this time follows the "Disk Mode" setting.

---

# Choose your display language

You can switch the language displayed on the display window of the main unit between Japanese and English.

---

**1** Select "Settings" – "Language" from the menu operations (page 49) .

---

**2** Press the M or m button to select "Japan English" or "English" and press YES•ENTER/MENU to confirm.

---

# Switching the display method for titles entered on a computer (only)

You can switch only when using in MD mode . Switching is not possible when using in Hi-MD mode .

In MD mode, there are two display methods . • Kanji priority: Default setting. Normally, leave them here. • Kanji/Kana alternately: Select this when you enter different information in the full-width area and the half-width area (eg, song title in the full-width area, performer's name in the half-width area, etc.) when entering characters on a computer. Both information are displayed.

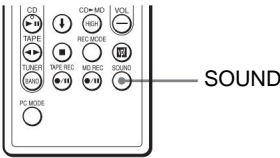
To switch to "kanji-kana alternating", follow the steps below.

1 Select "Settings" – "Select Display Mode" from the menu operations (page 49) .

2 Press the M or m button to select "Kanji Select "Alternating Kana", Press the YES•ENTER/MENU button to confirm .

To restore the setting, select "Kanji Priority" in step 2.

## Listen with your preferred sound quality



Just a quick note:  
Adjusting the sound quality has no effect on the recorded sound.

## enjoy sound effects

Press the SOUND button. The display switches each time the button is pressed. Please select the desired sound quality.

display	sound quality
	such as rock. The deep bass and treble are enhanced to create a sharp and powerful sound.
	such as pops. Emphasizes the middle and high frequencies, creating a lighter and brighter sound.
	such as jazz. Makes the bass sound clearer and produces a heavier sound quality.
	When you want to hear vocals. Emphasizes the midrange to make vocals stand out.
	such as classics. Suitable for listening to music with a wide dynamic range.

You can also select by menu operation. 1 Select "Sound" - "Preset Equalizer" from the menu operations (page 49).

2 Press the M or m button to select the desired sound quality, and press the YES•ENTER/MENU button to confirm .

Continued on next page

Listening with your preferred sound quality (continued)

## Enjoy realistic sound

Press the vpt\* button.



Each time you press the vpt button while vpt is displayed, the setting changes as follows.

**SURROUND ↔ WIDE ↔ OFF**

\* vpt = virtual phone technology

You can also select by menu operation. **1** Select "Sound" - "VPT" in the menu operation (page 49).

**2** Press the M or m button to

Select "SURROUND" or "WIDE",

Press the YES•ENTER/MENU button to confirm .

To return to normal sound, select "OFF" in step 2 .

### Change the sound quality characteristics of the speaker

The speaker system of this unit employs a digital linear phase system\* to achieve excellent sound image localization characteristics without phase shift. You can enjoy sound quality that exceeds the size.

\* This is a system that uses digital signal processing technology that applies vpt (virtual phone technology) to compensate for disturbances in the sound pressure frequency characteristics and phase characteristics of the speaker system, as well as delay time differences that occur in unit layouts .

A flat

frequency band is realized, making it ideal for a wide range of genres, from pop to classical.

Type B

Creates a sound that enhances the atmosphere of the mid- and high-range, making it ideal for songs centered on vocals.

Type C Creates

a sound that emphasizes the lingering sound of the mid-high range, making it ideal for jazz and other tunes where you can enjoy the atmosphere.

---

**1**In the menu operation (page 49), select  
Select "Set Species" - "Linear  
Phase".

---

**2** Press the M or m button to select  
"Type A", "Type B" or " Type  
C" and press the YES•ENTER/  
MENU button to confirm.

---

Note

When listening through headphones, the linear phase effect will not appear.

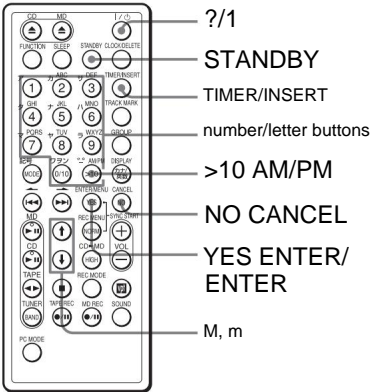


timer

wake up with music

(alarm timer)

You can use the timer function to use this unit as an alarm clock. Set the clock before operating (page 24).



If “ ” or “ ” appears in the display window before operation, press the STANDBY button to turn it off .

1Prepare the sound source you want to listen to.

sound source	Preparation
MD	Insert MD.
CDs	Insert a CD.
Insert the tape tape.	
radio	Preset reception.
LINE IN	Turn on the power of the device connected to LINE IN.

2 Press the TIMER/INSERT button.

After that, make settings while checking on the display window.

3 Press the M or m button to select  
Select “Playback”,  
Press the YES•ENTER/MENU button to confirm .

4 Press the M or m button to select the  
sound source (“MD Play”, “CD Play”,  
“TAPE Play”, “TUNER”, “LINE”),  
Press the YES•ENTER/MENU button to confirm .



5Set the time to start playback.

1 Press the >10 AM/PM button on the number/letter buttons to set “AM” or “PM” .



2Press the number/letter buttons in order of  
“hour” and “minute”. Example) At 6:45,  
press 6 y 4 y 5 in order.

3 Press the YES ENTER/MENU button.

vinegar.

6Set the time to stop playback in the  
same way.

7 Press the > or .  
display the desired volume and  
press the YES• ENTER/MENU button to confirm .



Waking up to music (alarm timer) (continued)

8 Press the STANDBY button.

"**Timer**" be displayed and the device will be in reservation standby mode. Playback will start automatically at the set time, the power will turn off at the end time, and the device will return to the reservation standby mode.

After confirming the reserved content or pressing the TIMER/INSERT button to change,

Press the YES•ENTER/MENU button. Each time the button is pressed, the reservation details are displayed in the order in which they were set. If you want to change it, display the contents and redo the settings from there to step 8. Even if you press the STANDBY button partway through, the changes will not be recorded.

Listening to other audio sources after

**making a reservation** If you turn on the power, you can perform normal operations. Turn off the power before the reserved time. The timer function will not work unless the power is turned off.

To stop timer playback halfway

Press the ?/1 button to turn off the power.

Tip • If you

make a mistake in the settings, press the NO•CANCEL button . The last setting will be lost, so please set it again. • To cancel the reservation standby mode, press the STANDBY button and the " " disappears from the display window. • **Reservations** will be retained unless otherwise set. • **is** a display indicating that the wake-up timer is active is shown.

please note

Alarm timer and recording timer cannot be reserved at the same time.

Record using a timer (Recording timer)

You can use the timer to record the sound of a radio or connected device. This is convenient when you cannot record on the spot, such as when you are away or late at night. Set the clock of this unit before operating (page 24). If " " or " " appears in the display window before operation, press the STANDBY button to turn it off . **Timer** **TimerREC**

1Prepare the sound source you want to record.

sound source	Preparation
radio	Preset reception.
LINE IN	Turn on the power of the device connected to LINE IN.

2Insert an MD or tape for recording.

be.

If you insert an MD that has already been recorded, it will be recorded after the recorded part. Insert the tape with the side you want to record facing up.

3 When recording to MD, use the menu to set the disc mode to "Hi-MD" or "MD" for a blank disc (page 90). Also, press the REC MODE button to select the recording mode. See pages 30-31 for details.

When recording on a tape, select "Single-sided recording" or "Double-sided recording". For details, see steps 2 and 3 on page 83 .

#### 4 Press the TIMER/INSERT button.

After that, make settings while checking on the display window.

#### 5 Press the M or m button to select REC", and Press the YES•ENTER/MENU button to confirm .

#### 6 Press the M or m button to select the recording destination ("TUNERtMD", "TUNER t TAPE", "LINEtMD", Select "LINEtTAPE", ), Press the YES•ENTER/MENU button to confirm .



#### 7Set the time to start recording.

1 Press the >10 AM/PM button on the number/letter buttons to set "AM" or "PM" .



2Press the number/letter buttons in order of "hour" and "minute". Example) At 6:45, press 6 y 4 y 5 in order.

3 Press the YES ENTER/MENU button.

vinegar.

#### 8Set the time to stop recording in the same way.

#### 9 Press the > or .

display the desired volume and press the YES• ENTER/MENU button to confirm .



#### 10 Press the STANDBY button.

"Timer REC" displayed and the machine will be in reservation standby mode. Recording will start automatically at the set time, and when the end time comes, the power will be turned off and the device will return to the reservation standby mode.

To check or change the reserved contents, press the TIMER/INSERT button, then

Press the YES•ENTER/MENU button. Each time the button is pressed, the reservation details are displayed in the order in which they were set. If you want to change it, display the contents and redo the settings from there to step 8. Even if you press the STANDBY button partway through, the changes will not be recorded.




To listen to other sound sources after making a

reservation, turn on the power and perform normal operations. Turn off the power one minute before the reserved time. The timer function will not work unless the power is turned off.

To stop timer recording halfway, press the I/1 button to turn off the power.

Tips • When recording on a tape on both sides (h), start recording from the top side. If you start from the bottom side (b) , the recording will stop at the end of the bottom side. • If you make a mistake, press the NO•CANCEL button . The last setting will be lost, so please set it again.

Recording using the timer (Recording Timer) (Continued)

- To cancel the reservation standby mode, press the STANDBY button  to turn off " " or  on the display.
- Reservations will be retained unless otherwise set.  indicates that the recording timer is running is.
- The power will automatically turn on 1 minute before the scheduled time, and recording will start about 2 seconds before.
- If you want to use timer recording at midnight or when you are away, set the volume to a low level in advance, or insert headphones into the i terminal to mute the speakers.

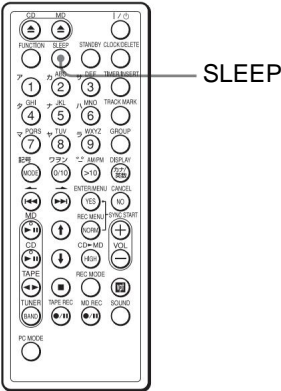
please note

The recording timer and wake-up timer (page 93) cannot be set at the same time .

# sleep while listening to music

sleep timer)

After the specified time has passed, the power will automatically turn off. The time can be selected from 10 minutes, 20 minutes, 30 minutes, 60 minutes, 90 minutes and 120 minutes. You can relax while listening to music.



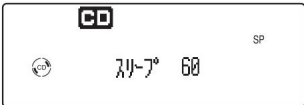
1 Start playing the music you want to listen to.

2 Press the SLEEP button to  
Display "Sleep 60".

**3** Press the SLEEP button to set the time (minutes).

choose.

Each time you press the button, it changes in the order of "60" t "90" t "120" t " OFF" t "10" t "20" t "30" .



If you press the SLEEP button and hold it for about 4 seconds , the time displayed at that time will be set. The display window backlight turns off and the sleep time begins counting down. After the specified time has passed, the power will automatically turn off.

## stop sleep timer

Press the SLEEP button to display "Sleep Off".

Start over from step 2 to

**change the sleep time .**

Tips • Alarm

timer (page 93) and sleep timer

Mars can be used in combination. In this case, first set the alarm timer to standby mode (pages 93, 94), then turn on the power and set the sleep timer. • You can listen to different music with the alarm clock and sleep timer. • You can set different volume for alarm timer and sleep timer. For example, you can sleep at a low volume and wake up at a high volume. • Select "Sleep Settings" in the menu operation (page 49).

You can also select the time (minutes) by pressing the M or m button.

timer

## Things you can do by connecting to a computer

### Note

Before connecting this unit to a computer, be sure to use the included CD-ROM to install the software "SonicStage". For details on how to install the software and the operating environment of your computer, see the separate "Software Installation/Basic Operation Guide".

By connecting this unit to a computer, you can do the following.

- Music data can be transferred between the MD of this unit and a computer.

Transfer files to

each other For details, refer to the separate "Software Installation/Basic Operation Guide" or SonicStage

Help.

- Listening to the sound of the connected computer (page 99)
- Saving data other than music data to the MD (page 100)

### Just a word

When using software to play back tracks on the disc you are using in Hi-MD mode inserted in this unit, the message "When you play back a Hi-MD disc, the sound will be heard through your computer's speakers." appears. However, if you use the USB speaker function of this unit, you can hear the playback sound from the speakers or headphones connected to this unit.

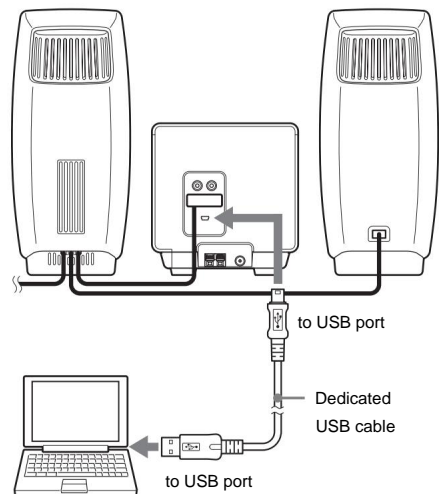
## connect to computer

Follow the steps below to connect the unit and the computer.

### Note

When you unplug the dedicated USB cable or operate the unit while it is connected to a computer, the message "Warning to remove the device" will be displayed on the computer, but this is not a problem. Click "OK" to clear the display.

When using Windows ME/98SE Connect this unit to a computer with the disc mode set to "Hi-MD" (default state) and insert a 60/74/80 minute blank disc. , the disc may become a Hi-MD format disc without recording anything.



### 1 Start your computer.

### 2 Press MDZ to insert an MD into this unit.

be.

This step is not necessary if you only use the USB speaker function.

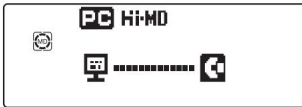
---

**3** Connect this unit and computer to the  
Connect with a USB cable.

---

**4** Press the PC MODE button.

The display window on the unit will change to indicate that the unit has been successfully connected to the computer.



---

**When disconnecting the dedicated USB cable**

- 1 Confirm that the BUSY lamp is off.  
be.
- 2 Remove the dedicated USB cable.

**When ejecting the MD**

- 1 Confirm that the BUSY lamp is off.  
be.
- 2 Remove the MD.

Note • If

you turn on or restart your computer while the power of this unit is on, your computer may not start up. In that case, turn off the power of this unit or disconnect the dedicated USB cable, and then restart the computer.

- Do not operate the device or disconnect the dedicated USB cable while the BUSY lamp on the device is lit.
- Remove the dedicated USB cable except when connecting to a computer .

If you connect to

a computer while "MD" is displayed in the tip display window , the display will change even if you do not press PC MODE in step 4.

---

## Listen to the sound of the connected computer (USB speaker function)

You can listen to the sounds played back on your computer, such as MD songs loaded into this unit or songs imported to software, through the speakers connected to this unit in the same way as listening to your computer.

please note

- Depending on the characteristics of the connected computer, noise may be heard during playback or the computer may not work properly.

- Power with Transmeta Crusoe processor

The USB speaker function may not work properly on some computers. • While playing as a USB speaker, the dedicated

Do not disconnect the USB cable or turn off the power.

---

## 1Check the computer settings.

In Windows XP, check that "CMT-AH10" is displayed in Control Panel  
ÿ Sounds and Audio Devices Properties ÿ Audio  
Tab ÿ "Sound Playback Default Device:".

In Windows 2000, go to  
Control Panel -> Sound and Multimedia  
Properties -> Audio tab -> "Preferred Device for  
Sound Playback:" and confirm that "USB Audio  
Device" is displayed.

Using by

Continued on next page

In Windows 98SE/ME, go to Control Panel -> Multimedia -> Audio -> "Playback" and confirm that the preferred device is displayed as "USB Audio Device".

---

**2Play** the song on your computer.

---

Press the VOLUME+ or – button to adjust.

---

## Saving data other than music data to discs (Hi-MD storage)

If you connect this unit to your computer while your disc is inserted in Hi-MD mode, Recognized as an external storage medium by Windows, data other than music data (text data, image data, etc.) can also be saved to the disc. For details on the capacity of each disc, see the next page.

**When the unit is recognized by the computer**, you can check the drive icon ("Removable disk (E:)" in Windows Explorer or "My Computer" ). (Depends on the model.) You can record data by dragging and dropping files and folders in the same way as when copying to a hard disk.

### Notes

- When the SonicStage software is running, it will not be recognized as an external device.
- When formatting (initializing) a disc on a computer , be sure to format it using the SonicStage software. • File management folder on Explorer
  - Do not delete (HMDHIFI folder, HI-MD.IND folder) .



Disk capacity by disk (when initialized by main unit/SonicStage software)

Disc type	Total capacity	Disk management capacity * free space	
60 min disc	219 MB (229,965,824 bytes)	832KB (851,968 bytes)	218MB (229,113,856 bytes)
74 minutes disk	270 MB (283,312,128 bytes)	832KB (851,968 bytes)	269MB (282,460,160 bytes)
80 min disk	291 MB (305,856,512 bytes)	832KB (851,968 bytes)	290MB (305,004,544 bytes)
Hi-MD disk	964 MB (1,011,613,696 bytes)	832 KB (851,968 bytes)	963MB (1,010,761,728 bytes)

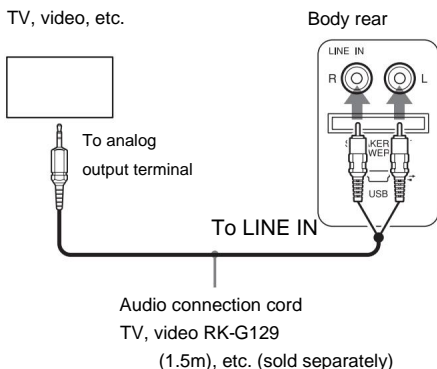
\* Disk management capacity is the capacity of the area that manages files in the disk.  
The disk management capacity varies depending on usage conditions and other factors. Therefore, it is displayed on the explorer  
The amount of free space that can actually be used may be less than the free space displayed.

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# Listening to TV, video, etc.

You can listen to the sound of TV and video through the speaker of this unit, and record analog sound on MD or tape of this unit. For details, refer to the instruction manual of the device to be connected. Before connecting, be sure to turn off the power of the device to be connected and this unit.

TV, video, etc.



To record the sound of a connected device, see "Manual Recording" (pages 45, 85).

**If the sound from the connected device is too loud or distorted**, press the MODE button repeatedly until "Low input sensitivity" is displayed. Alternatively, adjust the volume of the connected device.

**1** Connect the connection cord (sold separately) between the output terminal of the device to be connected and the Connect to the LINE IN terminal.

**2** Turn on the power.

**3** Press the FUNCTION button to Display "LINE". You can now play the sound of the connected device through the speakers of this unit.

## if you thought it was a malfunction

If you encounter any trouble while using this machine, please follow the steps below to check again before contacting our service center. (Please also refer to the list of messages (pages 110-116).) If a message is displayed, we recommend that you write it down.

### Step 1 Search in this document

Check this "Troubleshooting" and check the corresponding items. You can also find a lot of information in the procedures in this manual and in the Message List. Check the applicable item.

m

### Step

#### 2 Check on the "Personal Audio Customer Support" website.

Check at <http://www.sony.co.jp/support-pa/>. The latest support information, frequently asked questions and their answers are posted.

m

### Step 3 If the problem still persists

Please contact the Customer Service Center or the store where you purchased the product.

•Model name: CMT-

AH10•Manufacturing (serial) number: For the location of the description, refer to the separate sheet "Customer Registration Information" please look at.

•Consultation details:

•Error message displayed: •Situation  
where the problem occurred:


•CD used: •MD  
used:•Tape used:

I'm in  
trouble

when

Continued on next page

## Troubleshooting (Continued)

common	
symptoms	Check item
No sound.	<ul style="list-style-type: none"><li>• Press the I/1 button to turn on the power. • Firmly insert the power cord plug into the outlet. • Adjust volume. • When listening through speakers, remove headphones from the i terminal. • Wait until "Reading" disappears. • If the PC MODE button is pressed and the USB speaker function is</li></ul> <p>be.</p> <p><b>cPress</b> the PC MODE button. (page 99) • Firmly insert the dedicated speaker connection cord.</p>
There is noise.	<ul style="list-style-type: none"><li>• A device that emits radio waves, such as a mobile phone, is being used nearby.</li></ul> <p><b>cUse</b> mobile phones, etc., away from this unit.</p>
CD section	
symptoms	Check item
8cm CD cannot be played. I can't take it out.	<ul style="list-style-type: none"><li>• Even though an 8cm CD is inserted, the message "There is no disc" may appear and playback may not be possible, or the 8cm CD may not be ejected . In that case, hold down the PC MODE button and press the TUNE- button, CANCEL button,<p>Press the ENTER button in order. The settings will <b>be</b> reset, so press the CDZ button afterwards.</p></li></ul>
Does not play from the first track on the disc.	<ul style="list-style-type: none"><li>• The resume playback function is working.</li></ul> <p><b>c</b> Select "Settings" - "Resume" - "Resume Off" in the menu operation (page 59). • A mode other than "Normal Play" is selected in the main playback mode.</p> <p>be. Or, a mode other than normal playback is selected in sub playback mode.</p> <p><b>cSelect</b> "Normal Play" in the main playback mode. Select normal playback in sub playback mode (page 60). • "Repeat play" is selected. <b>cHold</b> down the MODE button on the remote control until " " disappears . (page 64).</p>
	

symptoms		Check item
"Read error" is displayed even though a CD is inserted.		<ul style="list-style-type: none"><li>• The CD is very dirty. <b>cClean</b> . (page 118)</li><li>• There is dew (water droplets) on the lens. <b>c</b> Remove the CD and leave the front panel open for several hours. • CD-R/CD-RW discs that have not been finalized (processed so that they can be played on a normal CD player ) cannot be played.</li><li>• For CD-R/CD-RW, the disc and the recorder used for recording Playback may not be possible depending on the state. • Music discs with copyright protection technology may not be playable . (10 pages)</li></ul>
Sound skips. There is noise.		<ul style="list-style-type: none"><li>• Depending on the CD, the sound may skip. turn down the volume <small>stomach.</small></li><li>• The CD is very dirty. <b>cClean</b> . (page 118)</li><li>• The CD has scratches. <b>c</b> Replace the CD. • Place in a place free from vibration. • With CD-R/CD-RW, the reproduced sound may be choppy or noisy depending on the conditions of the disc and the recorder used for recording.</li></ul>

MD department

symptoms		Check item
"Recording error", "Reading error ", "TOC data error " is displayed and no operation is accepted.		<ul style="list-style-type: none"><li>• The MD is dirty or damaged. <b>c</b> Replace with a new MD.</li></ul>
Cannot play.		<ul style="list-style-type: none"><li>• There is condensation (water droplets) on the internal lens. <b>c</b> Remove the MD and leave it for several hours with the front panel open.</li><li>• The MD is inserted in the wrong direction. <b>c</b> Insert the MD label side up. <b>c</b> Insert the MD in the direction of the arrow. • Insert an MD on which nothing has been recorded. ("This is a blank disc" or "Nothing is recorded" is displayed.) <b>cReplace</b> the MD with a recorded one.</li></ul>
The disc cannot be played on other devices.		<ul style="list-style-type: none"><li>• You tried to play on a device that does not support Hi-MD. <b>c</b> Hi-MD discs can only be played on devices that support Hi-MD. I can do it.</li></ul>

I'm in  
trouble

when

Continued on next page

## Troubleshooting (Continued)

symptoms	Check item
Does not play from the first track on the disc.	<ul style="list-style-type: none"><li>• The resume playback function is working. <b>c</b> From the menu operation, select "Settings" - "Resume" - "Resume On". "F" (page 59).</li><li>• A mode other than "Normal Play" is selected in the main playback mode. be. Or, a mode other than normal playback is selected in sub playback mode. <b>cSelect</b> "Normal Play" in the main playback mode. Select normal playback in sub playback mode (page 60). • "Repeat play" is selected. <b>cHold</b> down the MODE button on the remote control until " " disappears . (page 64).</li></ul>
Cannot record.	<ul style="list-style-type: none"><li>• The MD is in the accidental erasure prevention state. (page 118) <b>c</b> Return the MD's accidental erasure prevention knob to close the hole.</li><li>• A playback-only MD is inserted. ("This is a read-only disc" is displayed.) <b>c )</b> Replace with an MD for recording.</li><li>• There is not enough remaining recording time on the MD. ("Disk is full. is displayed) <b>cErase</b> unnecessary tracks or replace with another MD.</li><li>• A power failure occurred during recording or while "Writing system file" was displayed, or the power cord was unplugged from the outlet. <b>cRe</b> -record from the beginning.</li><li>• With CD-R/CD-RW, it may not be possible to record to MD depending on the condition of the disc and the recorder used for recording.</li></ul>
Cannot record at high speed.	<ul style="list-style-type: none"><li>• Once a song has been recorded at high speed, it cannot be recorded at high speed again for 74 minutes . (page 123) • High-speed recording is not possible because the MD does not have enough recording time for one track. ("Disk is full" is displayed)</li></ul>
The recorded sound skips.	<ul style="list-style-type: none"><li>• The volume was too loud when recording. <b>c</b> Lower the volume and record. • A very dirty CD was recorded at high speed. <b>c</b> Record at normal speed.</li></ul>
Noise appears in the recorded sound.	
A track that should have been recorded at high speed was not recorded.	<ul style="list-style-type: none"><li>• If you stop recording in the middle of a song, that song will not be recorded.</li></ul>
Cannot be edited on other models.	<ul style="list-style-type: none"><li>• Edit on a device that does not support Hi-MD or MDLP recording mode. I tried <b>cUse</b> this unit or another device that supports Hi-MD or MDLP mode to edit.</li></ul>
Momentary noise occurs during recording.	<ul style="list-style-type: none"><li>• In LP4 stereo recordings, due to the characteristics of the compression method, momentary noise may occur on very rare occasions, depending on the source of the recording. <b>cStereo</b> recording or LP2 stereo recording.</li></ul>

## Tape part

### Check item

symptoms

The tape does not move even when the operation button is pressed . • Close the cassette lid properly. do not have.

The previous recording is not completely erased.

- Clean the erase head. (page 119) • TYPEII (high position) or TYPEIV (metal) tapes cannot be used . Please use TYPEI (normal) tape.

Cannot record.

- Insert the tape correctly. • If the hook of the tape inserted into the deck is broken, cover the hole with cellophane. Cover with tape, etc. (page 119)

A lot of noise.

Poor sound quality.

- Clean the heads, pinch rollers and capstans. (page 119) • Demagnetize the head using the head eraser cleaner. (page 119)

Sound is distorted.

- TYPEII (high position) or TYPEIV (metal) tapes cannot be used . Please use TYPEI (normal) tape.

## radio section

### Check item

symptoms

Stereo does not work when receiving FM.

- Press the MODE button to display "Stereo reception". • You can listen in stereo only when broadcasting in stereo.

There is noise.

- When receiving FM stereo broadcasts, depending on the reception conditions, more noise. (page 44)
- If AM broadcasts are received near the TV, noise may be heard in the AM broadcasts. You may. Also, if you listen to FM broadcasts on this unit near a TV using an indoor antenna , the TV image may be distorted. In such cases, move the unit away from the TV.
- If you operate the remote control while receiving AM broadcasts, noise may occur. I will.
- The TV audio circuit of this radio (tuner) is also used as an FM broadcast receiving circuit . For this reason, in some areas , FM broadcasts may be heard while receiving TV channel 2 or 3. In that case, please contact your nearest service center.

I'm in

trouble

Continued on next page

when

## Troubleshooting (Continued)

### Connection with PC

symptoms	Check item
No sound comes out of the computer.	• While connecting to a computer, sound is played from the speakers or headphones connected to the unit. <b>c</b> Press the PC MODE button, and check that the connection with the computer has disappeared from the display window of the unit. (page 99)
The computer's playback volume is low.	• Raise the computer's volume to maximum (MAX).
When connected to a computer, the unit is not recognized by the computer.	• The USB cable on the computer side is disconnected. <b>c</b> Reinsert the USB cable. • Install the software "SonicStage" using the supplied CD-ROM. Please stall. <b>c</b> For details, refer to the separate "Software Installation and Basic Operation Guide." Do".
of the unit shows that it is connected to the computer (page 99), but the SonicStage software does not recognize the unit. do not do.	• When the computer (page 99) does not recognize the unit when.
Unstable operation while connected.	• You are using a USB hub or USB extension cable. <b>c</b> Operation cannot be guaranteed. Only with the included dedicated USB cable Connect directly to your computer.
Data other than music data can be saved. do not have.	• SonicStage software is running. <b>c</b> Quit the SonicStage software before operating. <small>sonicstage.</small> • You are trying to save to your disc in MD mode. <b>c</b> Replace the disc with a Hi-MD mode disc.

### Timer (clock) section

symptoms	Check item
Timer doesn't work.	• Set your clock to the correct time. (page 24) • There was a power outage. • Confirm that " " or " " is displayed. (94, <small>Timer REC</small> Page 95) • The start time and end time of the timer are the same. <b>c Readjust</b> the set time. • Turn off the power one minute before the scheduled recording time while waiting for the recording timer reservation . • Turn off the power before the reserved time while waiting for the alarm timer reservation.



Remote controller	
symptoms	Check item
Cannot operate with the remote control.	<ul style="list-style-type: none"><li>• If the batteries in the remote control are exhausted, replace them with new ones. (page 23) •</li></ul> <p>Operate the remote control by pointing it at the remote control sensor on the main unit. • Remove any obstacles between the main unit and the remote control. Do not expose the remote control receiver to strong light (direct sunlight or high-frequency fluorescent lighting). etc.), try not to hit it.</p>

This unit uses a microcomputer to perform each linked operation. Therefore, operation may become unstable due to power supply conditions and other factors. If the operation is still not normal after checking the above check items, hold down the PC MODE button and press the TUNE- button, CANCEL button, and ENTER button in that order . Your settings are reset. (The clock and timer settings will be reset to the factory settings, so reset them if necessary.) If this does not work, unplug the power cord, leave it for at least 2 hours, and then turn on the power. Please reconnect the code. If you have tried the above and it still does not work, please contact the store where you purchased the product or a Sony service representative.

I'm in  
trouble

when

# Message list

If a message appears on the display window, check it according to the table below.

Display (Japanese)	Display (English)	meaning	measures
No artist name entered	<b>NO NAME</b>	You set the main playback mode to artist playback on a disc that does not contain tracks with artist names. You tried to select "Search Artist" while searching for songs on a disc that does not contain songs with artist names.	—
No album name entered	<b>NO TITLE</b>	Album playback is selected as the main playback mode for a disc that does not contain tracks with album names. You tried to select "Album search" while searching for songs on a disc that does not contain songs with album names.	—
it's an error	<b>ERROR</b>	An internal system is malfunctioning.	While holding down the PC MODE button, press the TUNE- button, Press the CANCEL button and then the ENTER button. Settings are reset.
Recording stopped due to excessive temperature rise	<b>TEMP OVER REC STOP</b>	Recording/editing was stopped because the unit became too hot during recording/editing.	Let the machine rest for a while until it cools down before using it again.
to cancel	<b>CANCEL</b>	Stopped the operation.	—
No song selected	<b>NO TRACK IS SELECTED</b>	You pressed the > button while stopped and reached the end of the disc, then selected "Move track" or "Erase 1 track", or attempted to name a track.	Select the song you want to edit and perform the operation again.

Display (Japanese)	Display (English)	meaning	measures
Song limit exceeded	TRACK FULL	You tried to record more than 2,047 track numbers on the disc used in Hi-MD mode and 254 tracks on the disc used in MD mode.	Delete the track number to make it 2,047 (Hi-MD mode) or 254 (MD mode) or less.
Delete the song Yes OK? Yes: ENTER No: Press CANCEL	Erase OK? Yes PUSH YES: ENTER NO: CANCEL	Tried to delete a song.	To delete , press YES•ENTER/MENU .
no group	NO GROUP	An attempt was made to delete (page 78) or cancel (page 75) a group on a disc that has not been grouped .	Insert a disc with group settings.
Exceeded group limit	GROUP FULL	Attempted to create the 256th group with a disc used in Hi-MD mode and the 100th group with a disc used in MD mode.	You can create up to 255 groups on a disc used in Hi-MD mode and up to 99 groups on a disc used in MD mode . Please make a group within 255 or 99 .
This song is not grouped.	NON GROUPED TRACK	You selected "Move group" or "Delete group" or tried to name a group while the player was stopped or playing, or while a track not in a group was selected.	Select the song in the group you want to edit, and perform the operation again.
Are you sure you want to ungroup Yes? Yes  Yes: ENTER No: Press CANCEL	Group Yes RELEASE OK? Yes PUSH YES: ENTER NO: CANCEL	Tried to ungroup.	To cancel , press YES•ENTER/MENU .

I'm in  
trouble

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List of messages (continued)

Display (Japanese)	Display (English)	meaning	measures
Are you sure you want to delete the group?  ↵ Yes: ENTER No: Press CANCEL <div></div>	Group ↵ Erase OK? ↵ PUSH YES: ENTER NO: CANCEL <div></div>	Tried to delete a group.	To delete , press YES•ENTER/MENU .
No more songs	End	You pressed the > button while stopped, and then pressed the DISPLAY button when you reached the end of the disc .	—
This is a play-only disc.	P/B ONLY DISC	An attempt was made to record or edit on a read-only disc.	Replace with a recording disc.
Unplayable track	CAN NOT PLAY	An attempt was made to play content that has playback restrictions.	—
Writing system file	SYSTEM FILE WRITING	Recorded information (track start/end position, etc.) is recorded on the disc.	Wait for a while (do not give a shock or unplug the power).
Please wait	BUSY WAIT A MOMENT	Reading disc information. Processing recorded or edited content.	Please wait a moment. In rare cases, it may take about 1 minute.
Unusable disc	FORMAT ERROR DISC	A disc whose format is not supported by this unit as Hi-MD AUDIO was inserted.  A disc initialized by a computer is inserted.	Insert an MD or Hi-MD format disc.  When formatting on a computer, be sure to use the software SonicStage to format .
Are you sure you want to delete all songs ↵?  ↵ Yes: ENTER No: Press CANCEL <div></div>	ALL TRACK ↵ Erase OK? ↵ PUSH YES: ENTER NO: CANCEL <div></div>	You are about to erase all songs.	To delete , press YES•ENTER/MENU .



Display (Japanese)	Display (English)	meaning	measures
Operation not possible	CAN NOT Operate	An attempt was made to cue a group during program setting with the remote controller.	—
The disc is in the accidental erasure prevention state.	PROTECTED DISC	The disc is in the accidental erasure prevention state.	Return the accidental erasure prevention knob (page 118).
no disc in	NO DISC	CD or MD is not inserted.	Please insert a CD or MD .
disk space full	DISC FULL	Recording may not be possible if the remaining time on the disc is 48 seconds or less (during recording). Recorded to the end of the disc during recording.	Replace with another recording disc.
The tape is in the erasure prevention state.	PROTECTED TAPE	The hook of the tape is broken. be.	If you want to record on that tape, cover the hole with cellophane tape (page 119).
no tape	NO TAPE	No tape inside.	Please insert the tape.
digital recording is not possible	CAN NOT DIGITAL COPY	Dubbing is prohibited by the Serial Copy Management System (SCMS) (page 123).	—
clock not set	NO CLOCK SET	You pressed the STANDBY or TIMER/INSERT button without setting the clock .	Set the clock (page 24).
I deleted the track mark	MARK OFF	Removed track marks.	—
I put a track mark	MARK ON	marked the track.	—

I'm in trouble

when

Continued on next page

List of messages (continued)

Display (Japanese)	Display (English)	meaning	measures
nothing recorded	NO TRACK	You tried to play a disc on which nothing was recorded.	Insert a recorded disc.
is being sorted	Sorting	Sorting is in progress.	Wait for a while (do not give a shock or unplug the power).
No songs bookmarked	NO BOOKMARK TRACK	Attempted bookmark playback on a disc that does not have bookmarks.	Bookmark it (page 62) before operating.
Removed bookmark registration	 : OFF	Deleted bookmarks.	—
Bookmarked	 :ON	Bookmarked.	—
is a blank disc	BLANK DISC	A 60/74/80 minute MD disc with nothing recorded is inserted.	—
no playlist	NO PLAYLIST	Attempting to set the main playback mode to playlist on a CD that does not have a playlist.	Insert an MP3CD with a playlist .
cannot be edited	CAN NOT EDIT	An attempt was made to add a track mark to a break in a song during playback (page 80). You tried to combine tracks with different recording modes ( page 80).  An attempt was made to edit a name entered in SonicStage that includes double- byte characters.	—
Editing	EDITING	—	—

Display (Japanese)	Display (English)	meaning	measures
Exceeds character limit	TITLE FULL	You tried to enter more than 200 characters for a track name, group name, or disc name. You tried to enter a track name, group name, artist name, album name, or disc name exceeding a total of approximately 55,000 characters (for Hi-MD mode) or approximately 1,700 characters (for MD mode).	Shorten and enter the disc name, group name, artist name, album name, and track title ( pages 71-73 ).
loading error	READ ERROR	The disc information could not be read correctly.	Reinsert the disc.
resume off	RESUME OFF	You turned off the resume playback function.	—
resume on	RESUME ON	You turned on the resume playback function.	—
recording error	REC ERROR	Could not record correctly.	Place the unit in a place free from vibrations and try recording again.
		The disc is heavily soiled (oil film, finger prints, etc.) or scratched, or the disc is out of spec.	Change the disc and try recording again.
		Recording was stopped because the unit became too hot during recording.	Let the machine rest for a while until it cools down before using it again.
This disc does not support recording/playback.	CAN NOT RECORD OR PLAY	A disc that can be used as PC storage but cannot be recorded or played has been inserted.	—
Please remove the MD	REMOVE MD	After pressing the Z button, I pressed the MD's Z button again without ejecting the MD .	—
Insufficient recording time	SHORT REC TIME	You tried to perform high-speed dubbing when there was not enough recording time left for one track .	—

Continued on next page

I'm in  
trouble

when

List of messages (continued)

Display (Japanese)	Display (English)	meaning	measures
cannot record	CAN NOT COPY	You tried to record an entire CD with the sub-playback mode set to " Shuffle . "	—
		You tried to record a track other than an audio track (CDDA format).	
		You cannot record discs containing songs in formats other than audio tracks.	
there is no cd	NO CDs	You tried to record without a CD inserted.	Please insert a CD.
No MD	NO MD	You tried to record without an MD inserted.	Please insert MD.
PC transfer/ recording ÿ Are you sure you want to delete the song? ÿ Yes: ENTER No: Press CANCEL	TRK FROM PCÿ Erase OK? ÿ PUSH YES: ENTER NO: CANCEL	You tried to delete a song transferred from your computer.	If you want to remove Press the YES•ENTER/MENU button . Please note that the rights to the song may be lost (page 78).
Songs that have been transferred to a PC or recorded cannot be edited.	TRK FROM PC NO EDIT	You tried to divide or join songs transferred from a computer.	Songs transferred from a computer cannot be divided or joined on this unit.
There is an error in the TOC data	TOC DATA ERROR	Disc information could not be read correctly.	Please insert another disc. If it is okay to delete all the contents of the disc, delete all recorded contents.



# Precautions for use

## common

### Handling

- When connecting this unit to other devices, be careful not to get your feet caught on the connection cords. • Do not leave the front panel up. Dirt and dust may get inside and cause a malfunction.
- The speakers supplied with this unit use strong magnets. Do not place the following items near the unit. The magnetism may change and malfunction may occur. – watches – magnetic cards such as credit cards – magnetic tapes such as cassette tapes and video tapes

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Also, if the image on the TV or monitor is distorted, move the speaker further away.

### Condensation

Water droplets may form on the surface or inside of the device, such as when the device is suddenly brought from a cold place to a warm place. This is called condensation. If dew condensation occurs, turn off the power and leave it until the dew condensation disappears before using the product. Using the product when there is condensation may cause the device to malfunction.

### Precautions when carrying the main

unit Turn off the power and unplug the power cord.

### How to care for the main unit

Lightly wipe with a soft cloth moistened with water or lukewarm water, and then wipe with a dry cloth. Do not use thinner, benzene, alcohol, etc., as they will damage the surface.

## CD section

### About CDs

Only circular discs can be used with this unit. Using non-circular shaped discs (star-shaped, heart-shaped, card-shaped, etc.) may cause the unit to malfunction.

### How to handle a CD •

Hold the CD so that you do not touch the side with no letters (playback side). • Do not stick paper, etc. on it or damage it.

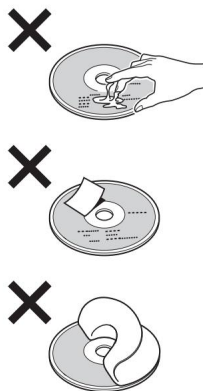
stomach.



- When not playing for a long time, store it in its case. Placing them on top of each other without putting them in a case or leaning them diagonally can cause them to warp.

### Do not use such discs

- Second-hand or rental CDs with sticky stickers sticking out or sticky glue sticking to them after the stickers have been removed. Also, the ink printed on the label side
- Something with a tatsuki. • Rental CDs with peeled stickers .



- Your own disc with a decorative label or sticker attached.

Doing so may cause the following failures, and may even damage important discs. - Labels and stickers may peel off inside the unit, making it impossible to remove the disc. - High temperatures cause labels and stickers to shrink and warp discs, making the signal unreadable. (Unable to play, sound skips, etc.)

## Precautions for use (continued)

How to take care of your CD

- Fingerprints and dust stains on CDs can degrade sound quality. Keep it clean.
- For normal cleaning, wipe the center of the CD with a soft cloth. Wipe lightly in an outward direction.



- If it is very dirty, wipe it with a cloth slightly moistened with water, and then wipe off the moisture with a dry cloth.
- Do not use benzine, record cleaners, anti-static agents, etc., as they may damage CDs.

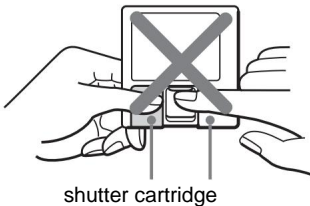
### MD department

How to handle MD

MDs are housed in cartridges and can be handled easily without worrying about dust or fingerprints. However, dirty or warped cartridges may cause malfunctions. Please note the following so that you can enjoy beautiful sound for as long as possible.

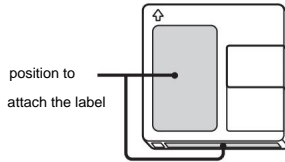
Do not touch the internal disc directly

If you try to force the shutter open, it may break. If the shutter opens, please close it immediately.



Affix the label in the designated location Do not

affix the label attached to the MD to a location other than the designated location, such as around the shutter. Be sure to stick it in the recess for the label. If you stick it in a place other than the one specified, you may not be able to remove the disc.



How to care for the MD

Periodically wipe off dust and dirt on the surface of the cartridge with a dry cloth.

To prevent accidental erasure of recorded

content, slide the erasure prevention knob so that the hole is open. To record again, return the knobs to their original positions.

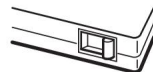
### back of disc



Accidental erasure prevention knob



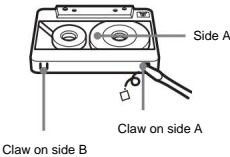
Cannot record/edit



Can record and edit

Tape part

Protecting important recordings - If you break the accidental erasure prevention tab, recording will not be possible, so you can prevent the mistake of accidentally erasing the recorded contents. Even if the tab is broken, you can record again by covering the hole with cellophane tape.



When using the tape for a long time, a tape that exceeds 90 minutes is convenient for long-term use, but it is thin and stretches easily. Note that repeated jerky running, stopping, fast-forwarding, and rewinding may cause the tape to get caught in the machine.

head cleaning

After long periods of use, the head may become dirty, resulting in poor sound, interruptions, or the inability to record. To enjoy stereo recording and playback with better sound, clean the head, capstan and pinch rollers with a commercially available cotton swab and cleaning solution after about 10 hours of use .

Degaussing the recording/

playback head If the recording/playback head is used for a long period of time, or if a magnetic screwdriver comes in contact with the head, the head will become magnetized, causing a rumbling noise to occur during recording or playback. If this happens, use a commercially available head demagnetizer to degauss the recording/playback head.

Main Specifications

CD player part  
model

compact disc digital audio system

Number of channels: 2 channels Wow and flutter measurement limit (JEITA\*) Frequency response: 20 to 20,000 Hz +1/-2 dB (JEITA\*)

MD deck  
model

Minidisc digital audio system  
Disc Minidisc Recording

method Magnetic field modulation reproduction method Non-contact optical reading (semiconductor

laser)  
Semiconductor laser  
(λ=790nm)  
Recording playback time  
When using HMD1G (1GB): up to 34 hours in stereo (Hi-LP)  
When using MDW-80 in Hi-MD mode : Stereo maximum 10 hours 10 minutes (Hi-LP)  
When using MDW-80 in MD mode : Monaural maximum 160 minutes (playback only) Stereo maximum 320 minutes (LP4)  
About 350rpm-3600rpm (CLV and CAV) error

correction method Hi-MD:

LDC (Long Distance Code)/BIS (Burst Indicator Subcode)  
MDs:  
ACIRC (Advanced Cross Interleave Reed Solomon Code)

Sampling frequency 44.1kHz

others

Continued on next page

Main specifications (continued)

coding Hi-MD:  
Linear PCM (44.1 kHz/ 16 bit) — PCM ATRAC3plus (Adaptive TRansform Acoustic Coding 3 plus) — Hi-SP/Hi-LP MD: ATRAC

Modulation method ATRAC3—LP2/LP4  
Hi-MD:  
1-7RLL (Run Length Limited)/PRML (Partial Maximum response Likelihood)  
MD:  
EFM (Eight to Fourteen Modulation) stereo  
Number of 2 channels  
channels Frequency response 20 to 20,000 Hz +1/-1 dB Wow and flutter Below measurement limit

Tuner reception frequency

antenna FM : 76-90MHz  
TV: 1-3ch  
AM : 531-1629kHz  
FM: lead antenna  
AM: loop antenna

Cassette deck part

Track system 4 tracks, 2 channels ,  
Fast winding time about 2 minutes (using Sony cassette tape C-60)  
Frequency range TYPE I (normal) cassette  
70-13,000Hz \_ \_

Speaker part

Model 2 way passive radiator type Speaker used Full range: Diameter 100mm Tweeter: Diameter 25mm Passive radiator:

100mm  
Maximum external dimensions Approx. 140 x 302 x 208 mm (width x height x depth) (including maximum protrusion) (JEITA\*)

mass Left speaker: Approx. 2.0 kg Right speaker: Approx. 4.25 kg 25W + 25W (JEITA\*/6ÿ)

Practical maximum output  
Common part  
Input/output terminal USB i  
Output terminal (headphone) (stereo minijack) 1 load impedance 16 to 68ÿ

SPEAKER OUT (POWER IN) x 1  
LINE IN x 1 Body: Household power supply (AC 100 V 50/60 Hz) Remote control: 1 lithium battery (DC 3 V) 45 W Approx. 144 x 153 x 180 mm (width x height x depth) (maximum including protrusions) (JEITA\*) Approx. 2.2kg

Power consumption  
Maximum external dimensions

mass  
Usable disc  
CD-DA, CD-RW, CD-R, CD Extra, CD TEXT disk  
diameter 12 cm / 8 cm

Optional accessory stereo headphones

MDR headphone series

This unit is licensed under US and foreign patents of Dolby Laboratories.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson .

Please note that the specifications and appearance of this unit are subject to change without notice for improvement.

\* Measured according to JEITA (Japan Electronics and Information Technology Industries Association) standards is the value.

# Warranty and after-sales service

## warranty

Please fill in the specified items and check the content, and save it in a safe place. The warranty period is one year from the date of purchase.

## After-sales service If

something goes wrong, first check this manual and check again.

If the problem persists, please

contact the store where you purchased the unit or the nearest Sony service center listed in the attached "Sony Service Information". When requesting service (repair),

Be sure to bring the CMT-AH10 main unit and the right speaker unit, which is the power supply section, together.

Repairs during the warranty

period will be performed based on the contents of the warranty. Please see the warranty for details.

After the warranty period has

expired, if the function can be maintained by repairing the product, we will charge a fee upon your request.

## Retention period of parts

We have performance parts for repair of the personal component system ( parts necessary to maintain the function of the product ) for 6 years after production is discontinued. This parts retention period is the period during which repairs are possible. Even after the holding period has passed, it may still be possible to repair depending on the part of the problem.

## Commentary

This section explains technical terms and system restrictions regarding MiniDiscs.

## What is a "system file"?

Also called TOC (Table Of Contents) , this refers to the area on a minidisc that records information other than audio . It records what track number and where it is on the disc. If a minidisc were a book, it would be an index or a table of contents. When recording, recording/deleting track marks, moving tracks, etc., this unit rewrites the system file ("Writing system file" is displayed). During this time, the disc is being recorded, so do not subject it to shocks or disconnect the power. Recording may not be performed correctly, and the contents of the disc may be lost.

## What is Hi-MD

Hi-MD is a new minidisc format. The disc recording method has been changed from the conventional MiniDisc, making it possible to record even longer. In addition, minidiscs can now be used as external devices for personal computers to store data other than music data (such as text data and image data).

## What is ATRAC3plus

ATRAC3plus is an audio compression technology developed from ATRAC3 . Whereas the conventional ATRAC3 (LP2/LP4 stereo mode of this unit ) had a compression ratio of 1/10 that of CD , ATRAC3plus (Hi-SP/Hi LP stereo mode of this unit) was compared based on CD. As a result, a high compression ratio of 1/20 and high sound quality are achieved.

others

## Explanation (continued)

### Hi-MD mode and MD mode

This unit has two modes, "Hi-MD mode" and "MD mode", and automatically detects the mode of the inserted disc. When a blank disc is inserted into this unit, you can select which mode to record in (except for 1GB discs exclusively for the Hi-MD standard). Set the disc mode setting ( page 66) in the menu to "Hi-MD" or "MD" before recording.

### What is Linear PCM

An audio recording method that does not use digital compression. If you record using this method, you can enjoy the same sound quality with MD as with CD .

### What is Net MD?

Using advanced copyright protection technology with OpenMG and MagicGate, this format enables high-speed transfer of music data from a computer to an MD device by connecting the computer and MD device with a USB (Universal Serial Bus) cable.

Since there is no change in the method of recording onto MD, existing discs can be used, and the recorded music data can be played back on existing MD devices \* . With SonicStage on your computer, you can easily perform various editing operations and input characters including kanji and hiragana.

\*When transferring in LP mode, MDLP compatible devices only

### What is MDLP

This unit adopts "ATRAC3: Adaptive Transform Acoustic

Coding 3" in addition to the conventional audio compression technology "ATRAC : Adaptive Transform Acoustic Coding" .

Based on psychoacoustic theory, this technology cuts out sounds that cannot be heard by the human ear and compresses music data to about 1/10th. As a result, the MD long-time recording mode "MDLP : Mini Disc Long Play mode", which doubles or quadruples the recording time, is possible. An 80-minute disc can be recorded/played for approximately 160 minutes in LP2 mode and approximately 320 minutes in LP4 mode .

### MD system restrictions

MD is recorded by a method different from conventional cassettes and DAT . Therefore, there are some system restrictions, and the following symptoms may appear. Please note that these are not malfunctions.

"Song limit exceeded" or "Disk capacity full" is displayed even though there is enough room for the number of songs and recording time. If you repeat recording and erasing on the same disc, the data for one track may not be recorded continuously, but may be divided into vacant areas. Even in such cases, the minidisc quickly finds the separated data and plays them in order. However, each piece of divided data is treated the same as a song segment (one song), and recording becomes impossible when the number reaches 255 (2,047 on a disc used in Hi-MD mode ) . To add more songs, erase unnecessary songs before recording.

Erasing tracks does not increase the remaining recording time of the disc. When displaying the remaining recordable time of the disc, ignore the portion of 12 seconds or less (for stereo recording), 24 seconds or less (LP2 stereo recording), or 48 seconds or less (LP4 stereo recording). For this reason, the remaining recording time may not increase no matter how many short songs are erased.

Do not connect songs.

If the data of the track to be joined is scattered on the disc and the length of each data is short \*, it may not be possible to join the previous track by erasing the track mark of that track. Also, track marks between songs recorded in different recording modes (eg linear PCM and Hi-SP) cannot be erased.

\* If the length of the data is as follows, join the songs. may not be possible.

	recording mode	data length
Hi-MD mode linear seconds or less	PCM stereo 9 seconds or less Hi-SP stereo Hi-LP stereo	8 seconds or less 32
MD mode SP stereo in the case of	LP2 stereo LP4 stereo	12 seconds or less 24 seconds or less 48 seconds or less

The total recording time and remaining time on the disc may not match the maximum recordable time. Normally, the minimum recording unit is about 2 seconds for stereo recording, about 4 seconds for LP2 stereo recording, and about 8 seconds for LP4 stereo recording . Where you stop recording, it takes up about 2 seconds (4 or 8 seconds) of space even though the last part of the recording is actually less than 2 seconds (4 or 8 seconds) . Also, when starting recording again after stopping recording, leave a space of approximately 2 seconds (4 or 8 seconds) at the point where recording started. This is to prevent you from accidentally erasing the previous track when you start recording. For this reason, the actual recording time will be shortened by up to 6 seconds (12 seconds or 24 seconds) from the maximum recordable time each time recording is stopped .

Even if the remaining recording time on the disc is the same as the total playback time of the track you want to record, you may not be able to record to the end.

About 2 seconds for Hi-SP and about 8 seconds for Hi-LP are recorded on disc as the minimum recording unit. At the point where the recording is stopped, even if the last part of the recording is less than the minimum unit, the space is used for the minimum unit. Therefore, the actual recording time is longer than the song playing time. Especially when recording a lot of songs, if the total playback time of the song you want to record and the remaining recording time of the disc are the same, you may not be able to record to the end. Note the remaining recording time.

The sound may be interrupted when playing back, fast-forwarding, or fast-reversing an edited song. If short tracks are scattered in various places on the disc, it will take time to find them, and the sound may be interrupted.

Once a song has been recorded at high speed, it cannot be recorded at high speed again for 74 minutes (HCMS: High Speed Copy Management System).

If you high-speed record a track, you will not be able to high-speed record the same track for 74 minutes from the start of recording. The High Speed Copy Management System (HCMS) uses data specific to each track on the CD (ISRC: International Standard Recording Code) to determine whether the track to be recorded was recorded within 74 minutes . Judge. If you attempt to record a track that has been recorded at high speed and then try to record it within 74 minutes, it will be recorded at normal speed. If there are several songs recorded at high speed on one CD, only those songs will be recorded at normal speed.

others

**Explanation (continued)**

Rules for copying digital audio software (Serial copy management system) Digital audio is an audio device that exchanges audio signals as numerical values (digital). This includes compact discs (CD), mini discs (MD), and digital audio tapes (DAT). They make copying music easy and almost lossless. For this reason, there is a need for copy control to protect the copyrights of music software. It is a "serial copy management system". The design of this machine complies with this system. The outline is as follows.

Copying\* between digital signals can be made up to one generation in principle 1. Although copies of commercially available digital music software can be made, copies of copies cannot be made.

**Principle**

2 : You can make copies of commercially available analog music software (analog records and music cassette tapes) and recordings of public broadcasting, but you cannot make copies of copies.

This principle does not apply to recordings that convert digital signals to analog signals, such as when recording by connecting the analog output terminals of an MD player. \* Copies here refer to "recordings of digital signals as they are".

**Note**

Making copies by removing or altering copy control signals for protecting copyrights is prohibited by law, even for personal enjoyment.



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## Guidance of inquiry window

If you have any questions about this machine, have technical questions, or if you suspect a malfunction, please use the contact information below.

zTo search on the homepage k**Personal** Audio Customer Support  
(<http://www.sony.co.jp/support-pa/>)

It provides the latest support information about this machine, frequently asked questions and their answers.

z**For** inquiries by phone/fax, please contact the Customer Service Center (see below).

number) • The product category of this unit is [Audio] - [Home Audio]. • When contacting us, please let us know the following: • When you have questions about the set itself: • Model name: CMT-AH10 • Manufacturing (serial) number: Refer to the attached "Customer Registration Request" for the location of the description • Inquiry content: Please provide as much detail as possible • Date of purchase • Attachment For software-related questions: • Software version: • Your computer (manufacturer/model name): • OS name installed on your computer: • Memory capacity/Hard disk space: • CD-ROM drive model name/type (external or internal): Error message (if an error message is displayed):

商品の修理、お取扱い方法、お買物相談などの問い合わせ

● <http://www.sony.co.jp/SonyDrive/>

お客様ご相談センター

● ナビダイヤル .....  0570-00-3311

(全国どこからでも市内通話料でご利用いただけます)

● 携帯電話・PHSでのご利用は... 03-5448-3311

(ナビダイヤルがご利用できない場合はこちらをご利用ください)

● FAX ..... 0466-31-2595

受付時間 : 月~金 9:00~20:00 土・日・祝日 9:00~17:00  
お電話は自動音声応答にてお受けしています。

ソニー株式会社 〒141-0001 東京都品川区北品川 6-7-35

personal component system  
CMT-AH10  
T10-1001A-2

> Please refer to the back  
cover for "Guidance on  
Inquiries".

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